

95 00592  
Appendix C

# *City of El Centro*

## *Water Master Plan Update*

APPENDIX C

### *Hydraulic Modeling Results*

SEPTEMBER 1994

Prepared for:



CITY OF EL CENTRO  
CALIFORNIA

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**APPENDIX C**  
**HYDRAULIC MODELING RESULTS**









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**APPENDIX C**

**CITY OF EL CENTRO WATER MASTER PLAN UPDATE**

**HYDRAULIC MODELING RESULTS**

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## HYDRAULIC MODEL REFERENCE MAPS

- 1 Existing Water Distribution System
- 2 Existing Water Distribution System with Improvements
- 3 Ultimate Water Distribution System

## MODEL COMPUTER FILES (ONE SET ONLY)

- |        |   |
|--------|---|
| Disk 1 | Base Map Drawing<br>ECENTRO1.DWG  |
| Disk 2 | Calibration Results<br>CALIBRAT.DWG   |
| Disk 3 | Existing Distribution System Pipe and Node Drawing<br>EC-PEAK1.DWG  |
| Disk 4 | Existing Distribution System Output<br>CY200000.INP<br>CY200000.OUT<br>CY200002.INP<br>CY200002.OUT<br>FF_LOG.TXT<br>FIREFLOW.INP<br>FIREFLOW.OUT                   |
| Disk 5 | Existing Distribution System with Improvements Pipe an Node<br>Drawing<br>EC-PEAK3.DWG  |
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## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 1 (Figure 5.2)

#### Existing Water Distribution System for Average Day Demand of Maximum Demand Month

Total Demand	7,400 gpm	10.6 mgd
Number of Pumps Operating:		
Water Treatment Plant Pump Station	2	
Remote Pump Station	0	
Pump Operating Speed:		
Water Treatment Plant Pump Station	92%	
Remote Pump Station	off	
Pump Discharge Rate:		
Pump 1 Water Treatment Plant PS	3,671 gpm	
Pump 2 Water Treatment Plant PS	3,685 gpm	
Pump 3 Water Treatment Plant PS	off	
Pump 1 Remote Pump Station	off	
Pump Discharge Head:		
Pump 1 Water Treatment Plant PS	119.5 ft	51.8 psi
Pump 2 Water Treatment Plant PS	119.2 ft	51.7 psi
Pump 3 Water Treatment Plant PS	off	off
Pump 1 Remote Pump Station	off	off
Hydraulic Grade Elevation:		
at Water Treatment Plant PS (El. 67 ft)	198.4 ft	56.9 psi
at Remote Pump Station (El. 60 ft)	188.3 ft	55.5 psi
at 3rd & Commercial (El. 50 ft)	188.5 ft	60.0 psi









# MAXIMUM DIMENSIONS

RUN-1

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	2400

Cybernet version 2.16c. SN: 1162130099-2000

Extended Description:

## U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

## O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

## S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1272  
 NUMBER OF JUNCTION NODES ..(j) = 947  
 NUMBER OF PRIMARY LOOPS ...(l) = 324  
 NUMBER OF BOUNDARY NODES ..(f) = 2  
 NUMBER OF SUPPLY ZONES ....(z) = 1

## \*\*\*\*\* S I M U L A T I O N R E S U L T S \*\*\*\*\*

The results are obtained after 7 trials with an accuracy = 0.00185

## S I M U L A T I O N D E S C R I P T I O N

CyberNet Version 2.16c. Copyright 1991,92 Haestad Methods Inc.  
 Run Description: AVE. DAY OF MAX MONTH FLOW = 7360 GPM 10.5 MG  
 Drawing: EC-PEAK1









## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5	10	5	-5824.16	0.21	0.00	0.00	2.64	1.24
10	10	15	5554.30	1.20	0.00	0.00	2.52	1.14
15	2420	15	-5424.15	0.29	0.00	0.00	2.46	1.09
17	2420	20	4932.70	0.85	0.00	0.00	2.24	0.91
20	20	30	4932.70	1.02	0.00	0.00	2.24	0.91
30	30	40	3915.42	0.35	0.00	0.00	1.78	0.60
40	40	50	3915.42	0.17	0.00	0.00	1.78	0.60
50	50	60	3505.02	0.85	0.00	0.00	2.49	1.44
60	60	70	3232.80	0.66	0.00	0.00	2.29	1.24
80	70	80	2997.54	0.96	0.00	0.00	2.13	1.08
90	80	90	2855.45	0.41	0.00	0.00	2.02	0.98
100	90	100	1936.31	0.16	0.00	0.00	1.37	0.48
205	5	210	1532.49	0.11	0.00	0.00	0.70	0.10
210	210	220	1532.49	1.73	0.00	0.00	1.93	1.26
220	220	230	1532.49	1.67	0.00	0.00	1.93	1.26
240	230	240	1499.22	1.17	0.00	0.00	1.89	1.21
250	240	250	1499.22	1.28	0.00	0.00	1.89	1.21
260	250	260	1360.15	0.91	0.00	0.00	1.71	1.01
270	260	270	1118.23	0.25	0.00	0.00	1.41	0.70
280	270	280	1012.29	0.13	0.00	0.00	1.28	0.59
290	280	300	1036.99	0.34	0.00	0.00	1.31	0.61
305	300	305	773.51	0.22	0.00	0.00	0.98	0.36
310	305	310	643.43	0.08	0.00	0.00	0.81	0.25
315	310	315	580.31	0.07	0.00	0.00	0.73	0.21
320	315	320	-765.26	0.13	0.00	0.00	0.96	0.35
325	320	325	-718.67	0.29	0.00	0.00	0.91	0.31
330	325	330	-795.05	0.22	0.00	0.00	1.00	0.37
335	330	335	-909.60	0.08	0.00	0.00	1.15	0.48
340	335	90	-914.37	0.25	0.00	0.00	1.15	0.48
400	315	400	1225.40	0.28	0.00	0.00	1.54	0.83
405	400	405	476.11	0.23	0.00	0.00	1.35	1.04
410	405	410	393.79	0.21	0.00	0.00	1.12	0.73
415	410	415	330.90	0.11	0.00	0.00	0.94	0.53
420	415	420	378.72	0.25	0.00	0.00	1.07	0.68
425	420	425	311.50	0.16	0.00	0.00	0.88	0.48
430	425	430	312.43	0.10	0.00	0.00	0.89	0.48
435	430	435	278.80	0.07	0.00	0.00	0.79	0.39
440	435	440	269.94	0.13	0.00	0.00	0.77	0.36
445	440	445	243.58	0.07	0.00	0.00	0.69	0.30
450	445	450	257.13	0.06	0.00	0.00	0.73	0.33
455	450	455	226.21	0.10	0.00	0.00	0.64	0.26
457	455	457	-84.81	0.01	0.00	0.00	0.24	0.04
459	457	459	-92.74	0.03	0.00	0.00	0.26	0.05
460	460	459	106.87	0.03	0.00	0.00	0.30	0.07



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
465	460	465	-31.35	0.01	0.00	0.00	0.09	0.01
470	465	470	-288.74	0.08	0.00	0.00	0.82	0.41
475	470	475	-244.55	0.06	0.00	0.00	0.69	0.30
480	475	480	-279.74	0.07	0.00	0.00	0.79	0.39
485	480	485	-209.24	0.05	0.00	0.00	0.59	0.23
490	485	490	-408.58	0.29	0.00	0.00	1.16	0.79
495	490	495	-455.57	0.36	0.00	0.00	1.29	0.96
500	495	500	-483.41	0.37	0.00	0.00	1.37	1.07
505	500	505	-418.85	0.29	0.00	0.00	1.19	0.82
510	505	510	-486.94	0.40	0.00	0.00	1.38	1.09
515	510	100	-585.74	0.53	0.00	0.00	1.66	1.53
600	455	600	296.61	0.13	0.00	0.00	0.84	0.43
605	600	605	303.03	0.08	0.00	0.00	0.86	0.45
610	605	610	289.35	0.21	0.00	0.00	0.82	0.41
615	610	615	261.35	0.12	0.00	0.00	0.74	0.34
620	615	620	240.78	0.10	0.00	0.00	0.68	0.30
625	620	625	125.22	0.03	0.00	0.00	0.36	0.09
630	625	630	105.85	0.02	0.00	0.00	0.30	0.06
635	630	635	100.48	0.02	0.00	0.00	0.29	0.06
640	635	640	59.19	0.01	0.00	0.00	0.17	0.02
645	640	645	105.00	0.02	0.00	0.00	0.30	0.06
650	645	650	60.12	0.01	0.00	0.00	0.17	0.02
655	650	655	60.12	0.02	0.00	0.00	0.17	0.02
660	655	660	29.34	0.02	0.00	0.00	0.19	0.04
700	465	700	264.05	0.14	0.00	0.00	0.75	0.35
705	700	705	325.01	0.19	0.00	0.00	0.92	0.51
710	705	710	362.80	0.27	0.00	0.00	1.03	0.63
715	710	715	268.66	0.05	0.00	0.00	0.76	0.36
720	715	720	230.80	0.09	0.00	0.00	0.65	0.27
725	720	725	104.74	0.05	0.00	0.00	0.43	0.15
730	725	730	100.02	0.07	0.00	0.00	0.41	0.14
735	730	735	76.86	0.03	0.00	0.00	0.31	0.09
740	735	740	64.14	0.02	0.00	0.00	0.26	0.06
745	740	745	54.89	0.02	0.00	0.00	0.22	0.05
750	745	750	55.69	0.01	0.00	0.00	0.23	0.05
800	400	800	755.28	0.25	0.00	0.00	0.95	0.34
810	800	810	747.86	0.22	0.00	0.00	0.94	0.33
820	810	820	605.08	0.15	0.00	0.00	0.76	0.23
830	820	830	671.67	0.08	0.00	0.00	0.85	0.27
840	830	840	722.24	0.12	0.00	0.00	0.91	0.31
845	840	860	158.44	0.01	0.00	0.00	0.45	0.14
850	840	850	559.22	0.09	0.00	0.00	0.71	0.20
860	850	5000	559.22	0.13	0.00	0.00	0.71	0.20
875	860	870	-18.93	0.00	0.00	0.00	0.05	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
880	870	880	-76.20	0.01	0.00	0.00	0.22	0.04
890	880	890	-123.62	0.03	0.00	0.00	0.35	0.09
895	890	3025	-169.39	0.05	0.00	0.00	0.48	0.15
900	420	900	59.01	0.01	0.00	0.00	0.17	0.02
910	900	910	50.81	0.01	0.00	0.00	0.14	0.02
920	910	920	184.96	0.12	0.00	0.00	0.52	0.18
930	920	5000	165.02	0.10	0.00	0.00	0.47	0.15
935	5000	935	91.52	0.00	0.00	0.00	0.26	0.05
940	935	940	95.72	0.02	0.00	0.00	0.27	0.05
950	940	950	92.79	0.02	0.00	0.00	0.26	0.05
960	950	960	124.06	0.02	0.00	0.00	0.35	0.09
970	960	970	36.39	0.01	0.00	0.00	0.10	0.01
980	970	980	2.88	0.00	0.00	0.00	0.01	0.00
1000	260	1000	-72.39	0.12	0.00	0.00	0.46	0.23
1010	1000	1010	-66.32	0.19	0.00	0.00	0.42	0.20
1015	1010	1015	-258.31	0.83	0.00	0.00	1.65	2.42
1020	1015	50	-250.35	1.63	0.00	0.00	1.60	2.28
1030	260	1030	-87.82	0.28	0.00	0.00	0.56	0.33
1040	1030	1040	28.12	0.01	0.00	0.00	0.18	0.04
1050	1040	1050	-0.16	0.00	0.00	0.00	0.00	0.00
1060	1050	1060	-23.42	0.03	0.00	0.00	0.27	0.12
1070	1060	1070	-45.51	0.24	0.00	0.00	0.52	0.39
1080	1070	1080	-121.52	0.66	0.00	0.00	1.38	2.43
1090	1080	50	-156.00	1.56	0.00	0.00	1.77	3.86
1100	1015	1090	-15.90	0.03	0.00	0.00	0.18	0.06
1105	1090	1080	-23.84	0.04	0.00	0.00	0.27	0.12
1110	1000	1100	-22.29	0.08	0.00	0.00	0.25	0.11
1115	1100	1110	-27.38	0.07	0.00	0.00	0.31	0.15
1120	1010	1110	45.00	0.03	0.00	0.00	0.29	0.10
1125	1110	1050	10.28	0.00	0.00	0.00	0.07	0.01
1150	1040	1150	19.05	0.02	0.00	0.00	0.22	0.08
1155	1150	1155	-2.22	0.00	0.00	0.00	0.03	0.00
1160	1155	1160	-9.38	0.01	0.00	0.00	0.11	0.02
1165	1050	1160	24.64	0.01	0.00	0.00	0.16	0.03
1170	1150	1170	11.71	0.01	0.00	0.00	0.13	0.03
1175	1170	1175	1.26	0.00	0.00	0.00	0.01	0.00
1180	1175	1180	-6.81	0.00	0.00	0.00	0.08	0.01
1185	1180	1185	-14.88	0.02	0.00	0.00	0.17	0.05
1190	1160	1185	6.02	0.00	0.00	0.00	0.04	0.00
1195	1185	1205	-19.00	0.01	0.00	0.00	0.12	0.02
1200	1060	1200	11.00	0.01	0.00	0.00	0.12	0.03
1205	1200	1205	21.00	0.03	0.00	0.00	0.24	0.09
1210	1070	1210	64.36	0.20	0.00	0.00	0.73	0.75
1215	1210	1200	19.30	0.05	0.00	0.00	0.22	0.08





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1220	1210	1220	35.16	0.07	0.00	0.00	0.40	0.24
1225	1220	1225	21.09	0.01	0.00	0.00	0.13	0.02
1230	1205	1225	-9.72	0.00	0.00	0.00	0.06	0.01
1240	1170	1240	5.37	0.00	0.00	0.00	0.06	0.01
1245	1175	1245	5.37	0.00	0.00	0.00	0.06	0.01
1250	1180	1250	5.37	0.00	0.00	0.00	0.06	0.01
1255	1185	1255	5.37	0.00	0.00	0.00	0.06	0.01
1260	1205	1260	4.59	0.00	0.00	0.00	0.05	0.01
1265	1225	1265	6.34	0.00	0.00	0.00	0.07	0.01
1270	1220	1270	6.34	0.00	0.00	0.00	0.07	0.01
1275	1030	1275	-118.56	0.26	0.00	0.00	0.76	0.57
1280	1275	250	-139.07	0.37	0.00	0.00	0.89	0.77
1300	270	1300	28.13	0.09	0.00	0.00	0.32	0.16
1305	1300	1305	-48.20	0.39	0.00	0.00	0.55	0.44
1310	1300	1310	64.15	0.04	0.00	0.00	0.41	0.18
1315	1310	1315	39.44	0.01	0.00	0.00	0.25	0.07
1320	1315	1320	-30.78	0.03	0.00	0.00	0.20	0.05
1325	1320	1305	-65.00	0.41	0.00	0.00	0.74	0.76
1327	300	1325	-153.08	0.05	0.00	0.00	0.43	0.13
1330	1315	1330	60.27	0.26	0.00	0.00	0.68	0.66
1335	1320	1335	19.83	0.03	0.00	0.00	0.22	0.08
1340	1325	1330	-143.80	0.02	0.00	0.00	0.41	0.11
1345	1330	1335	-91.89	0.26	0.00	0.00	0.59	0.36
1350	1335	1350	-136.38	0.45	0.00	0.00	0.87	0.74
1355	1350	70	-230.28	1.20	0.00	0.00	1.47	1.96
1360	60	1360	267.24	3.35	0.00	0.00	3.03	10.47
1365	1360	1365	89.08	0.74	0.00	0.00	1.01	1.37
1370	1360	1370	89.08	0.37	0.00	0.00	1.01	1.37
1375	1010	1305	129.81	0.26	0.00	0.00	0.83	0.68
1380	280	1310	-24.70	0.00	0.00	0.00	0.07	0.00
1400	320	1403	-59.96	0.20	0.00	0.00	0.68	0.66
1404	1400	1403	37.01	0.09	0.00	0.00	0.42	0.27
1405	1400	1405	-11.52	0.01	0.00	0.00	0.13	0.03
1410	1405	1325	14.26	0.01	0.00	0.00	0.16	0.05
1420	1400	1420	-35.18	0.13	0.00	0.00	0.40	0.24
1425	1420	1425	-25.53	0.06	0.00	0.00	0.29	0.14
1430	1425	1430	-30.64	0.11	0.00	0.00	0.35	0.19
1435	1405	1435	-35.87	0.24	0.00	0.00	0.41	0.25
1440	1435	1440	-35.94	0.15	0.00	0.00	0.41	0.25
1445	1420	1445	-14.90	0.03	0.00	0.00	0.17	0.05
1450	1445	1450	-34.78	0.14	0.00	0.00	0.39	0.24
1455	1403	1455	-30.41	0.11	0.00	0.00	0.35	0.19
1460	1455	1460	-30.85	0.07	0.00	0.00	0.35	0.19
1465	1460	1465	-32.52	0.13	0.00	0.00	0.37	0.21



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1470	1455	1470	-4.80	0.02	0.00	0.00	0.12	0.04
1475	1470	1475	-37.97	0.17	0.00	0.00	0.43	0.28
1480	325	1470	-66.64	0.03	0.00	0.00	0.43	0.20
1485	1470	1460	-38.44	0.05	0.00	0.00	0.44	0.29
1490	1460	1445	-44.37	0.06	0.00	0.00	0.50	0.38
1495	1445	1425	-29.47	0.03	0.00	0.00	0.33	0.18
1500	1425	1435	-32.74	0.07	0.00	0.00	0.37	0.21
1505	1435	1335	-47.87	0.03	0.00	0.00	0.31	0.11
1510	330	1475	23.99	0.02	0.00	0.00	0.27	0.12
1515	1475	1465	-13.98	0.01	0.00	0.00	0.16	0.04
1520	1465	1450	-50.16	0.08	0.00	0.00	0.57	0.47
1525	1450	1430	-4.95	0.00	0.00	0.00	0.06	0.01
1530	1430	1440	-41.09	0.10	0.00	0.00	0.47	0.33
1535	1350	1440	84.37	0.32	0.00	0.00	0.96	1.24
1540	1450	1540	-83.66	0.11	0.00	0.00	0.53	0.30
1545	1540	80	-102.40	0.56	0.00	0.00	1.16	1.77
1600	400	1600	-14.21	0.01	0.00	0.00	0.16	0.05
1605	1600	1605	-19.00	0.06	0.00	0.00	0.22	0.08
1610	415	1610	-112.14	0.48	0.00	0.00	0.72	0.52
1615	1610	1615	-51.33	0.09	0.00	0.00	0.58	0.49
1620	1615	1605	-26.61	0.05	0.00	0.00	0.30	0.15
1622	1610	1620	-65.82	0.08	0.00	0.00	0.42	0.19
1624	1620	1625	-101.59	0.08	0.00	0.00	0.65	0.43
1625	1615	1625	-29.43	0.07	0.00	0.00	0.33	0.18
1627	1625	1630	-120.36	0.20	0.00	0.00	0.77	0.59
1630	1605	1630	-55.12	0.22	0.00	0.00	0.63	0.56
1635	1630	1635	-151.59	0.30	0.00	0.00	0.97	0.90
1637	1635	325	-124.55	0.10	0.00	0.00	0.79	0.63
1640	1620	1640	-41.90	0.05	0.00	0.00	0.27	0.08
1645	1625	1645	-22.72	0.07	0.00	0.00	0.26	0.11
1650	1630	1650	-35.94	0.15	0.00	0.00	0.41	0.25
1655	1635	1655	-35.50	0.15	0.00	0.00	0.40	0.25
1660	1640	505	-27.66	0.11	0.00	0.00	0.31	0.16
1665	1647	510	-37.68	0.19	0.00	0.00	0.43	0.28
1670	1653	100	-56.26	0.39	0.00	0.00	0.64	0.58
1675	1640	1645	-52.42	0.10	0.00	0.00	0.59	0.51
1680	1645	1647	-82.47	0.22	0.00	0.00	0.94	1.19
1685	1647	1650	-48.57	0.07	0.00	0.00	0.55	0.45
1690	1650	1653	-91.85	0.25	0.00	0.00	1.04	1.45
1695	1653	1655	-39.28	0.05	0.00	0.00	0.45	0.30
1697	1655	330	-78.45	0.17	0.00	0.00	0.89	1.08
1700	425	1700	-41.80	0.45	0.00	0.00	0.47	0.34
1702	1620	1702	77.68	0.37	0.00	0.00	0.88	1.06
1705	1700	495	-13.09	0.01	0.00	0.00	0.08	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1710	1700	1702	-45.16	0.14	0.00	0.00	0.51	0.39
1715	1640	1705	34.25	0.08	0.00	0.00	0.39	0.23
1720	1705	500	26.36	0.10	0.00	0.00	0.30	0.14
1750	435	1750	1.50	0.00	0.00	0.00	0.02	0.00
1755	1750	1755	-17.89	0.09	0.00	0.00	0.20	0.07
1760	1755	490	-37.49	0.19	0.00	0.00	0.43	0.28
1770	440	1770	19.29	0.01	0.00	0.00	0.12	0.02
1775	1770	1775	-5.06	0.00	0.00	0.00	0.03	0.00
1780	1775	1780	-84.24	0.04	0.00	0.00	0.24	0.04
1785	1780	485	-214.75	0.09	0.00	0.00	0.61	0.24
1790	445	1790	-15.65	0.04	0.00	0.00	0.18	0.05
1795	1790	1770	-17.75	0.01	0.00	0.00	0.20	0.07
1800	460	1800	-172.46	0.06	0.00	0.00	0.49	0.16
1805	1800	1805	-129.96	0.08	0.00	0.00	0.37	0.09
1810	1805	475	-33.64	0.00	0.00	0.00	0.10	0.01
1815	1805	1780	-121.00	0.03	0.00	0.00	0.34	0.08
1820	1800	1775	-67.65	0.08	0.00	0.00	0.43	0.20
1880	605	1880	0.71	0.00	0.00	0.00	0.01	0.00
1900	610	1900	8.50	0.01	0.00	0.00	0.10	0.02
1902	1900	1945	-6.70	0.01	0.00	0.00	0.08	0.01
1905	615	1905	12.37	0.02	0.00	0.00	0.14	0.04
1907	1905	1950	5.22	0.00	0.00	0.00	0.06	0.01
1910	620	1910	10.22	0.02	0.00	0.00	0.12	0.02
1912	1910	1955	1.96	0.00	0.00	0.00	0.02	0.00
1915	625	1915	13.24	0.03	0.00	0.00	0.15	0.04
1917	1915	1960	6.95	0.01	0.00	0.00	0.08	0.01
1920	635	1920	39.46	0.04	0.00	0.00	0.25	0.07
1925	1920	1925	10.30	0.00	0.00	0.00	0.07	0.01
1927	1925	1965	4.14	0.00	0.00	0.00	0.03	0.00
1930	1920	1930	17.55	0.01	0.00	0.00	0.11	0.02
1932	1930	1970	12.10	0.00	0.00	0.00	0.08	0.01
1935	460	1935	96.94	0.15	0.00	0.00	0.62	0.39
1937	1935	1975	-41.53	0.01	0.00	0.00	0.12	0.01
1940	1935	1940	126.08	0.23	0.00	0.00	0.80	0.64
1942	1940	1980	-4.83	0.00	0.00	0.00	0.05	0.01
1945	1940	1945	110.87	0.12	0.00	0.00	0.71	0.51
1950	1945	1950	98.14	0.14	0.00	0.00	0.63	0.40
1952	1950	1990	12.84	0.01	0.00	0.00	0.08	0.01
1955	1950	1955	77.55	0.09	0.00	0.00	0.49	0.26
1957	1955	1995	6.55	0.01	0.00	0.00	0.07	0.01
1960	1955	1960	56.85	0.05	0.00	0.00	0.36	0.15
1962	1960	2000	1.30	0.00	0.00	0.00	0.01	0.00
1965	1960	1965	49.01	0.05	0.00	0.00	0.31	0.11
1967	1965	2005	13.63	0.03	0.00	0.00	0.15	0.04





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1970	1965	1970	20.05	0.01	0.00	0.00	0.13	0.02
1972	1970	655	-1.07	0.00	0.00	0.00	0.01	0.00
1973	1970	2010	17.28	0.04	0.00	0.00	0.20	0.07
1975	1975	700	-50.55	0.01	0.00	0.00	0.14	0.02
1980	1980	705	-19.56	0.06	0.00	0.00	0.22	0.08
1982	1982	1985	-2.31	0.00	0.00	0.00	0.03	0.00
1985	1985	710	-45.32	0.01	0.00	0.00	0.13	0.01
1987	1985	1990	37.51	0.04	0.00	0.00	0.43	0.28
1990	1990	715	2.79	0.00	0.00	0.00	0.03	0.00
1992	1990	1995	36.84	0.09	0.00	0.00	0.42	0.27
1995	1995	720	5.29	0.00	0.00	0.00	0.06	0.01
1997	1995	2000	24.87	0.04	0.00	0.00	0.28	0.13
2000	2000	725	19.30	0.01	0.00	0.00	0.12	0.02
2005	2005	730	4.12	0.00	0.00	0.00	0.05	0.00
2010	2010	735	7.77	0.01	0.00	0.00	0.09	0.01
2012	655	2015	19.20	0.05	0.00	0.00	0.22	0.08
2015	2015	740	9.69	0.02	0.00	0.00	0.11	0.02
2017	660	2020	19.83	0.05	0.00	0.00	0.22	0.08
2020	2020	745	10.31	0.02	0.00	0.00	0.12	0.03
2200	230	2200	33.27	0.00	0.00	0.00	0.04	0.00
2210	2200	2210	33.27	0.00	0.00	0.00	0.04	0.00
2220	2210	2220	33.27	0.00	0.00	0.00	0.04	0.00
2230	2220	2230	0.00	0.00	0.00	0.00	0.00	0.00
2300	2220	2300	33.27	0.02	0.00	0.00	0.21	0.05
2310	2300	2310	3.54	0.00	0.00	0.00	0.02	0.00
2320	2300	2320	1.57	0.00	0.00	0.00	0.01	0.00
2330	2300	2330	23.06	0.01	0.00	0.00	0.15	0.03
2340	2330	2340	3.54	0.00	0.00	0.00	0.02	0.00
2350	2330	2350	1.57	0.00	0.00	0.00	0.01	0.00
2360	2330	2360	12.84	0.00	0.00	0.00	0.08	0.01
2370	2360	2370	3.54	0.00	0.00	0.00	0.02	0.00
2380	2360	2380	1.57	0.00	0.00	0.00	0.01	0.00
2400	9470	2400	-582.30	0.18	0.00	0.00	0.73	0.21
2410	2400	2410	-582.30	0.15	0.00	0.00	0.73	0.21
2420	2410	2420	-582.30	0.13	0.00	0.00	0.73	0.21
2430	2420	2430	-90.84	0.00	0.00	0.00	0.11	0.01
2440	2430	2440	-98.70	0.11	0.00	0.00	0.63	0.41
2445	2440	15	-130.14	0.18	0.00	0.00	0.83	0.68
2450	2440	2450	23.58	0.01	0.00	0.00	0.15	0.03
2460	2450	2460	7.86	0.00	0.00	0.00	0.05	0.00
2470	2450	2470	7.86	0.00	0.00	0.00	0.05	0.00
3000	300	3000	408.37	0.37	0.00	0.00	1.16	0.78
3005	3000	3005	353.83	0.16	0.00	0.00	1.00	0.60
3010	3005	3010	309.60	0.27	0.00	0.00	0.88	0.47





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3015	3010	3015	285.17	0.24	0.00	0.00	0.81	0.40
3017	3540	3010	-20.32	0.03	0.00	0.00	0.23	0.09
3020	3015	3020	278.96	0.15	0.00	0.00	0.79	0.39
3025	3020	3025	300.88	0.20	0.00	0.00	0.85	0.45
3030	3025	3030	12.51	0.00	0.00	0.00	0.04	0.00
3035	3030	3035	3.05	0.00	0.00	0.00	0.00	0.00
3040	3035	3040	3.05	0.00	0.00	0.00	0.00	0.00
3045	3040	3045	103.47	0.03	0.00	0.00	0.29	0.06
3050	3045	3050	62.09	0.01	0.00	0.00	0.18	0.02
3055	3050	3055	62.09	0.01	0.00	0.00	0.18	0.02
3060	3055	3060	30.07	0.00	0.00	0.00	0.09	0.01
3065	3025	3065	116.36	0.04	0.00	0.00	0.33	0.08
3070	3065	3070	112.43	0.03	0.00	0.00	0.32	0.07
3075	3070	3075	51.80	0.01	0.00	0.00	0.15	0.02
3080	3075	3080	46.56	0.00	0.00	0.00	0.13	0.01
3100	300	3100	-7.65	0.01	0.00	0.00	0.09	0.01
3105	3100	3105	0.42	0.00	0.00	0.00	0.00	0.00
3110	3100	3110	-8.07	0.01	0.00	0.00	0.09	0.02
3115	3110	3115	-10.17	0.01	0.00	0.00	0.12	0.02
3120	270	3115	183.79	0.45	0.00	0.00	1.17	1.29
3122	270	260	-113.84	0.25	0.00	0.00	0.73	0.53
3125	260	3130	234.22	1.13	0.00	0.00	1.49	2.02
3130	3115	3270	170.47	0.46	0.00	0.00	1.09	1.12
3140	3130	3140	92.24	0.20	0.00	0.00	0.59	0.36
3145	3140	3145	84.65	0.09	0.00	0.00	0.54	0.31
3147	3145	3147	7.86	0.00	0.00	0.00	0.05	0.00
3150	3130	3150	128.22	0.23	0.00	0.00	0.82	0.66
3152	3245	3150	-67.33	0.30	0.00	0.00	0.76	0.81
3155	3150	3145	47.14	0.06	0.00	0.00	0.30	0.10
3200	3200	3205	26.33	0.07	0.00	0.00	0.30	0.14
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	12.01	0.01	0.00	0.00	0.14	0.03
3210	3205	3215	24.40	0.11	0.00	0.00	0.28	0.12
3215	3215	3220	3.12	0.00	0.00	0.00	0.04	0.00
3217	3235	3215	-9.89	0.00	0.00	0.00	0.06	0.01
3220	3145	3225	116.33	0.21	0.00	0.00	0.74	0.55
3225	3225	3230	74.65	0.12	0.00	0.00	0.48	0.24
3227	3225	3200	31.78	0.06	0.00	0.00	0.36	0.20
3230	3230	3235	26.01	0.12	0.00	0.00	0.30	0.14
3233	3252	3230	-21.48	0.03	0.00	0.00	0.24	0.10
3235	3235	3240	3.12	0.00	0.00	0.00	0.04	0.00
3237	3257	3235	-21.38	0.01	0.00	0.00	0.14	0.02
3245	3250	3245	-29.64	0.09	0.00	0.00	0.34	0.18
3247	3245	3247	29.33	0.05	0.00	0.00	0.33	0.17



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3249	3247	3252	24.14	0.06	0.00	0.00	0.27	0.12
3250	3250	3255	61.92	0.17	0.00	0.00	0.40	0.17
3251	3280	3250	64.08	0.25	0.00	0.00	0.73	0.74
3252	3252	3257	49.03	0.09	0.00	0.00	0.31	0.11
3254	3250	3252	16.87	0.02	0.00	0.00	0.19	0.06
3255	3255	3040	100.42	0.19	0.00	0.00	0.64	0.42
3257	3255	3257	-55.89	0.05	0.00	0.00	0.36	0.14
3259	3257	3259	3.12	0.00	0.00	0.00	0.02	0.00
3260	3005	3260	38.25	0.09	0.00	0.00	0.43	0.29
3262	3260	3262	2.31	0.00	0.00	0.00	0.03	0.00
3264	3260	3295	39.66	0.18	0.00	0.00	0.45	0.31
3265	3260	3265	-12.31	0.01	0.00	0.00	0.14	0.04
3267	3265	3267	2.31	0.00	0.00	0.00	0.03	0.00
3269	3265	3290	34.61	0.14	0.00	0.00	0.39	0.24
3270	3265	3270	-57.82	0.18	0.00	0.00	0.66	0.61
3273	3275	3280	41.43	0.20	0.00	0.00	0.47	0.33
3274	3270	3285	51.94	0.30	0.00	0.00	0.59	0.50
3275	3270	3275	52.33	0.15	0.00	0.00	0.59	0.51
3277	3275	3277	2.31	0.00	0.00	0.00	0.03	0.00
3280	3280	3285	-28.94	0.05	0.00	0.00	0.33	0.17
3285	3285	3290	16.71	0.02	0.00	0.00	0.19	0.06
3290	3290	3295	29.21	0.05	0.00	0.00	0.33	0.17
3295	3295	3010	5.98	0.00	0.00	0.00	0.07	0.01
3297	3295	3300	45.86	0.39	0.00	0.00	0.52	0.40
3300	3020	3300	-8.89	0.00	0.00	0.00	0.06	0.00
3305	3300	3305	26.23	0.01	0.00	0.00	0.17	0.04
3310	3305	3310	3.41	0.00	0.00	0.00	0.02	0.00
3315	3305	3315	15.83	0.00	0.00	0.00	0.10	0.01
3320	3315	3320	3.41	0.00	0.00	0.00	0.02	0.00
3325	3315	3325	5.43	0.00	0.00	0.00	0.03	0.00
3330	3325	3330	3.41	0.00	0.00	0.00	0.02	0.00
3335	3255	3325	4.98	0.00	0.00	0.00	0.03	0.00
3400	3020	3400	-21.86	0.01	0.00	0.00	0.14	0.02
3405	3400	3405	2.62	0.00	0.00	0.00	0.03	0.00
3410	3400	3410	-29.06	0.01	0.00	0.00	0.19	0.04
3415	3410	3415	2.62	0.00	0.00	0.00	0.03	0.00
3420	3410	3420	72.84	0.07	0.00	0.00	0.46	0.23
3425	3420	3425	2.62	0.00	0.00	0.00	0.03	0.00
3430	3420	3430	65.63	0.06	0.00	0.00	0.42	0.19
3435	3430	3435	2.62	0.00	0.00	0.00	0.03	0.00
3437	3430	830	58.43	0.05	0.00	0.00	0.37	0.15
3440	820	3440	-74.45	0.07	0.00	0.00	0.48	0.24
3445	810	3450	-44.78	0.12	0.00	0.00	0.51	0.38
3450	3440	3450	-82.31	0.19	0.00	0.00	0.53	0.29



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3460	3460	3450	102.27	0.31	0.00	0.00	0.65	0.44
3467	3460	315	-109.69	0.31	0.00	0.00	0.70	0.50
3470	310	3470	53.48	0.33	0.00	0.00	0.61	0.53
3475	3450	3480	-38.47	0.08	0.00	0.00	0.44	0.29
3480	3470	3480	46.07	0.28	0.00	0.00	0.52	0.40
3490	3480	3490	25.33	0.09	0.00	0.00	0.29	0.13
3500	3490	3500	17.78	0.02	0.00	0.00	0.20	0.07
3505	3500	3410	111.07	0.14	0.00	0.00	0.71	0.51
3510	3500	3510	-76.41	0.17	0.00	0.00	0.49	0.25
3515	3480	3510	-31.38	0.06	0.00	0.00	0.36	0.20
3520	3510	3520	-99.37	0.35	0.00	0.00	0.63	0.41
3525	3520	305	-120.81	0.27	0.00	0.00	0.77	0.59
3530	3520	3530	9.96	0.00	0.00	0.00	0.06	0.01
3535	3530	3000	-45.82	0.13	0.00	0.00	0.52	0.40
3540	3530	3540	45.03	0.33	0.00	0.00	0.51	0.39
3545	3510	3540	-17.01	0.02	0.00	0.00	0.19	0.06
3550	3540	3550	33.60	0.15	0.00	0.00	0.38	0.22
3555	3550	3500	25.74	0.04	0.00	0.00	0.29	0.14
3600	405	3600	74.12	0.16	0.00	0.00	0.47	0.24
3603	810	3605	173.92	0.04	0.00	0.00	0.49	0.16
3605	3600	3605	65.92	0.13	0.00	0.00	0.42	0.19
3610	410	3610	54.70	0.09	0.00	0.00	0.35	0.14
3613	3605	3615	229.35	0.08	0.00	0.00	0.65	0.27
3615	3610	3615	46.49	0.07	0.00	0.00	0.30	0.10
3620	415	3620	51.12	0.09	0.00	0.00	0.33	0.12
3623	3615	3625	267.65	0.10	0.00	0.00	0.76	0.36
3625	3620	3625	42.92	0.06	0.00	0.00	0.27	0.09
3627	3625	910	302.36	0.13	0.00	0.00	0.86	0.45
3630	425	3630	24.87	0.09	0.00	0.00	0.28	0.13
3633	910	3635	141.31	0.26	0.00	0.00	0.90	0.79
3635	3630	3635	16.66	0.04	0.00	0.00	0.19	0.06
3640	430	3640	33.62	0.04	0.00	0.00	0.21	0.06
3642	3635	3645	70.09	0.04	0.00	0.00	0.45	0.22
3643	3640	3643	33.62	0.03	0.00	0.00	0.21	0.06
3645	3643	3645	33.62	0.01	0.00	0.00	0.21	0.06
3650	440	3650	2.38	0.00	0.00	0.00	0.03	0.00
3655	3650	440	-1.00	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	100.73	0.15	0.00	0.00	0.64	0.42
3667	3697	3665	-19.99	0.01	0.00	0.00	0.13	0.02
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	61.93	0.05	0.00	0.00	0.40	0.17
3677	3675	4510	61.93	0.06	0.00	0.00	0.40	0.17
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3685	3635	3685	67.87	0.14	0.00	0.00	0.43	0.20
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	62.08	0.07	0.00	0.00	0.40	0.17
3697	3695	3697	-5.29	0.00	0.00	0.00	0.03	0.00
3698	3695	3698	52.51	0.05	0.00	0.00	0.34	0.13
3699	3698	4520	52.51	0.05	0.00	0.00	0.34	0.13
4000	3045	4000	36.92	0.03	0.00	0.00	0.24	0.07
4010	4000	4010	15.37	0.01	0.00	0.00	0.10	0.01
4020	4010	4020	5.33	0.00	0.00	0.00	0.03	0.00
4025	4020	3070	-0.65	0.00	0.00	0.00	0.00	0.00
4030	4020	4030	-4.05	0.00	0.00	0.00	0.03	0.00
4040	4030	4040	-16.10	0.01	0.00	0.00	0.10	0.01
4045	4040	3060	-23.02	0.01	0.00	0.00	0.15	0.03
4050	4000	4050	9.87	0.00	0.00	0.00	0.06	0.01
4060	4050	4060	4.86	0.00	0.00	0.00	0.03	0.00
4070	4060	4070	-2.92	0.00	0.00	0.00	0.02	0.00
4080	4070	4080	-17.35	0.01	0.00	0.00	0.11	0.02
4090	4080	3055	-22.59	0.01	0.00	0.00	0.14	0.03
4100	4100	4105	-21.99	0.01	0.00	0.00	0.14	0.03
4103	3070	4105	49.50	0.04	0.00	0.00	0.32	0.11
4105	4105	4110	-31.78	0.02	0.00	0.00	0.20	0.05
4110	4110	890	-38.78	0.03	0.00	0.00	0.25	0.07
4115	4115	4120	-21.15	0.00	0.00	0.00	0.13	0.02
4120	4120	4125	-33.43	0.02	0.00	0.00	0.21	0.05
4123	4105	4120	47.05	0.03	0.00	0.00	0.30	0.10
4125	4125	880	-40.42	0.04	0.00	0.00	0.26	0.08
4130	4130	4135	-27.75	0.01	0.00	0.00	0.18	0.04
4133	4120	4135	47.09	0.03	0.00	0.00	0.30	0.10
4135	4135	4140	-34.74	0.02	0.00	0.00	0.22	0.06
4137	4135	4225	44.40	0.05	0.00	0.00	0.28	0.09
4140	4140	4145	-44.70	0.03	0.00	0.00	0.29	0.09
4145	4145	870	-54.66	0.03	0.00	0.00	0.35	0.14
4150	4140	4150	3.67	0.00	0.00	0.00	0.02	0.00
4155	4145	4155	3.67	0.00	0.00	0.00	0.02	0.00
4200	860	4200	110.07	0.13	0.00	0.00	0.70	0.50
4205	4200	4205	69.66	0.06	0.00	0.00	0.44	0.21
4210	4205	4210	40.35	0.02	0.00	0.00	0.26	0.08
4215	4210	935	7.14	0.00	0.00	0.00	0.05	0.00
4220	860	4220	59.82	0.08	0.00	0.00	0.38	0.16
4225	4220	4225	52.36	0.05	0.00	0.00	0.33	0.13
4227	4225	4235	55.76	0.04	0.00	0.00	0.36	0.14
4230	4200	4230	34.57	0.03	0.00	0.00	0.22	0.06
4235	4230	4235	28.73	0.02	0.00	0.00	0.18	0.04
4237	4235	4245	54.37	0.04	0.00	0.00	0.35	0.14





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4240	4205	4240	23.47	0.01	0.00	0.00	0.15	0.03
4245	4240	4245	17.63	0.01	0.00	0.00	0.11	0.02
4247	4245	4255	46.07	0.03	0.00	0.00	0.29	0.10
4250	4210	4250	27.37	0.02	0.00	0.00	0.17	0.04
4255	4250	4255	21.52	0.01	0.00	0.00	0.14	0.02
4257	4255	950	37.51	0.02	0.00	0.00	0.24	0.07
4260	4225	4260	21.60	0.01	0.00	0.00	0.14	0.02
4265	4260	4265	14.14	0.01	0.00	0.00	0.09	0.01
4266	4265	4266	-50.64	0.02	0.00	0.00	0.32	0.12
4267	4265	4275	51.55	0.04	0.00	0.00	0.33	0.12
4268	4265	4267	2.88	0.00	0.00	0.00	0.02	0.00
4270	4235	4270	17.65	0.01	0.00	0.00	0.11	0.02
4275	4270	4275	11.02	0.00	0.00	0.00	0.07	0.01
4277	4275	4285	50.17	0.03	0.00	0.00	0.32	0.12
4278	4275	4278	2.88	0.00	0.00	0.00	0.02	0.00
4280	4245	4280	13.46	0.01	0.00	0.00	0.09	0.01
4285	4280	4285	6.83	0.00	0.00	0.00	0.04	0.00
4287	4285	4295	50.37	0.04	0.00	0.00	0.32	0.12
4290	4255	4290	17.64	0.01	0.00	0.00	0.11	0.02
4295	4290	4295	11.04	0.00	0.00	0.00	0.07	0.01
4297	4295	970	54.81	0.04	0.00	0.00	0.35	0.14
4300	960	4300	80.91	0.09	0.00	0.00	0.52	0.28
4305	4300	4340	3.46	0.00	0.00	0.00	0.02	0.00
4310	4300	4310	70.51	0.06	0.00	0.00	0.45	0.22
4315	4310	4350	3.53	0.00	0.00	0.00	0.02	0.00
4320	4310	4320	60.03	0.05	0.00	0.00	0.38	0.16
4325	4320	4360	0.03	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	53.06	0.04	0.00	0.00	0.34	0.13
4335	4330	4370	-0.39	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	46.51	0.03	0.00	0.00	0.30	0.10
4340	970	4340	78.71	0.08	0.00	0.00	0.50	0.27
4345	4340	4380	2.88	0.00	0.00	0.00	0.02	0.00
4350	4340	4350	69.46	0.06	0.00	0.00	0.44	0.21
4355	4350	4390	2.88	0.00	0.00	0.00	0.02	0.00
4360	4350	4360	60.28	0.05	0.00	0.00	0.38	0.16
4370	4360	4370	53.37	0.04	0.00	0.00	0.34	0.13
4375	4370	4590	46.04	0.03	0.00	0.00	0.29	0.10
4400	4550	4400	-19.26	0.01	0.00	0.00	0.12	0.02
4410	4400	4410	-24.11	0.01	0.00	0.00	0.15	0.03
4420	4410	4420	-33.93	0.02	0.00	0.00	0.22	0.06
4430	4420	4430	3.93	0.00	0.00	0.00	0.03	0.00
4440	4420	5020	-42.84	0.06	0.00	0.00	0.27	0.09
4500	450	4500	16.38	0.00	0.00	0.00	0.05	0.00
4510	4500	4510	-0.20	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4520	4510	4520	33.22	0.00	0.00	0.00	0.09	0.01
4530	4520	4530	33.80	0.00	0.00	0.00	0.10	0.01
4540	4530	5030	26.34	0.00	0.00	0.00	0.07	0.00
4545	5030	4540	8.45	0.00	0.00	0.00	0.01	0.00
4550	4540	4550	-35.29	0.00	0.00	0.00	0.04	0.00
4560	4550	4560	-54.63	0.00	0.00	0.00	0.07	0.00
4570	4560	4570	-85.63	0.00	0.00	0.00	0.11	0.01
4580	4570	4580	-41.42	0.00	0.00	0.00	0.05	0.00
4590	4580	4590	-43.73	0.00	0.00	0.00	0.06	0.00
4600	600	4600	-13.78	0.01	0.00	0.00	0.09	0.01
4610	4600	4610	-24.53	0.02	0.00	0.00	0.16	0.03
4620	4610	4620	-24.53	0.02	0.00	0.00	0.16	0.03
4630	4620	5040	-24.53	0.02	0.00	0.00	0.16	0.03
4700	610	4700	-7.12	0.00	0.00	0.00	0.02	0.00
4710	4700	4710	-9.32	0.00	0.00	0.00	0.03	0.00
4720	4710	4720	-94.59	0.04	0.00	0.00	0.27	0.05
4730	4720	4730	-113.51	0.01	0.00	0.00	0.32	0.07
4740	4730	4740	-138.30	0.05	0.00	0.00	0.39	0.11
4750	4740	4750	-157.97	0.02	0.00	0.00	0.45	0.14
4760	4750	5050	-163.21	0.07	0.00	0.00	0.46	0.14
4800	620	4800	96.51	0.00	0.00	0.00	0.27	0.05
4810	4800	4810	-59.06	0.09	0.00	0.00	0.38	0.16
4820	4810	4820	-60.32	0.08	0.00	0.00	0.38	0.16
4830	4820	4830	-60.32	0.08	0.00	0.00	0.38	0.16
4840	4830	4840	-35.53	0.03	0.00	0.00	0.23	0.06
4850	4810	4850	-8.56	0.00	0.00	0.00	0.02	0.00
4860	4840	5060	-35.53	0.04	0.00	0.00	0.23	0.06
4870	4710	4850	64.06	0.13	0.00	0.00	0.73	0.74
4880	4850	4870	55.28	0.28	0.00	0.00	0.63	0.57
4885	4830	4880	-24.79	0.01	0.00	0.00	0.16	0.03
4890	4880	4730	-24.79	0.01	0.00	0.00	0.16	0.03
4900	4800	4900	108.64	0.05	0.00	0.00	0.31	0.07
4905	4900	630	-3.54	0.00	0.00	0.00	0.01	0.00
4910	4900	4910	65.42	0.01	0.00	0.00	0.19	0.03
4920	4910	4920	59.61	0.00	0.00	0.00	0.17	0.02
4930	4920	4930	82.56	0.02	0.00	0.00	0.23	0.04
4935	4930	640	48.43	0.00	0.00	0.00	0.14	0.02
4940	4930	4940	33.29	0.00	0.00	0.00	0.09	0.01
4945	4940	4947	-21.14	0.00	0.00	0.00	0.06	0.00
4950	4920	4950	-22.95	0.00	0.00	0.00	0.07	0.00
4955	4947	4955	-25.90	0.02	0.00	0.00	0.17	0.03
4957	4955	4995	-38.22	0.02	0.00	0.00	0.24	0.07
4960	4950	4960	-37.05	0.00	0.00	0.00	0.11	0.01
4965	4960	4965	-30.14	0.00	0.00	0.00	0.09	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4970	4965	4970	-40.62	0.00	0.00	0.00	0.12	0.01
4975	4970	4975	-37.59	0.00	0.00	0.00	0.11	0.01
4977	4975	4977	-46.32	0.01	0.00	0.00	0.13	0.01
4980	4977	4980	-52.08	0.01	0.00	0.00	0.15	0.02
4985	4980	4985	-96.51	0.02	0.00	0.00	0.27	0.05
4990	4985	4990	-129.45	0.03	0.00	0.00	0.37	0.09
4993	5080	4990	196.13	0.06	0.00	0.00	0.56	0.20
4995	4980	4995	38.66	0.00	0.00	0.00	0.11	0.01
5000	5000	5010	620.10	0.13	0.00	0.00	0.78	0.24
5010	5010	5020	620.10	0.11	0.00	0.00	0.78	0.24
5020	5020	5030	577.26	0.10	0.00	0.00	0.73	0.21
5030	5030	5040	588.47	0.15	0.00	0.00	0.74	0.21
5040	5040	5050	635.65	0.17	0.00	0.00	0.80	0.25
5050	5050	5060	472.43	0.10	0.00	0.00	0.60	0.14
5060	5060	5070	436.90	0.14	0.00	0.00	0.55	0.12
5070	5070	5080	436.90	0.10	0.00	0.00	0.55	0.12
5080	5080	5090	240.77	0.03	0.00	0.00	0.30	0.04
5090	5090	6000	240.77	0.03	0.00	0.00	0.30	0.04
5100	4900	5100	8.22	0.00	0.00	0.00	0.05	0.00
5105	5100	4960	8.22	0.00	0.00	0.00	0.05	0.00
5110	4970	5110	-3.03	0.00	0.00	0.00	0.02	0.00
5120	5110	5120	-9.42	0.00	0.00	0.00	0.06	0.01
5125	5120	4975	-10.38	0.00	0.00	0.00	0.07	0.01
5130	5120	5130	-7.95	0.00	0.00	0.00	0.05	0.00
5140	5130	5140	-16.85	0.00	0.00	0.00	0.11	0.02
5145	5140	5150	-34.62	0.03	0.00	0.00	0.22	0.06
5150	5150	4990	-40.38	0.03	0.00	0.00	0.26	0.08
5160	5140	5160	3.62	0.00	0.00	0.00	0.02	0.00
5163	5160	4975	17.11	0.00	0.00	0.00	0.11	0.02
5165	5160	5170	-21.41	0.01	0.00	0.00	0.14	0.02
5170	5170	4985	-27.17	0.01	0.00	0.00	0.17	0.04
5180	4965	5180	6.55	0.00	0.00	0.00	0.03	0.00
5190	4950	5190	12.79	0.02	0.00	0.00	0.15	0.04
5195	5190	4947	7.55	0.00	0.00	0.00	0.03	0.00
5200	4995	5200	0.45	0.00	0.00	0.00	0.00	0.00
5205	5205	5200	9.32	0.00	0.00	0.00	0.03	0.00
5210	5205	5210	-13.59	0.00	0.00	0.00	0.04	0.00
5215	5210	5260	-9.91	0.00	0.00	0.00	0.03	0.00
5217	5210	5215	-8.23	0.01	0.00	0.00	0.09	0.02
5220	5220	5215	12.50	0.01	0.00	0.00	0.14	0.04
5225	5220	5265	26.41	0.00	0.00	0.00	0.07	0.00
5230	5230	5220	43.18	0.00	0.00	0.00	0.12	0.01
5235	5250	5230	-11.30	0.02	0.00	0.00	0.13	0.03
5237	5230	5235	-59.01	0.01	0.00	0.00	0.17	0.02





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5240	5200	5240	2.50	0.00	0.00	0.00	0.03	0.00
5250	5240	5250	-0.73	0.00	0.00	0.00	0.01	0.00
5252	5250	5210	4.02	0.00	0.00	0.00	0.03	0.00
5255	5200	5255	3.00	0.00	0.00	0.00	0.03	0.00
5260	5255	5260	-3.42	0.00	0.00	0.00	0.04	0.00
5265	5260	5265	-57.26	0.01	0.00	0.00	0.16	0.02
5270	5260	5270	31.10	0.02	0.00	0.00	0.20	0.05
5272	5270	5279	29.89	0.03	0.00	0.00	0.19	0.04
5275	5280	5279	-15.82	0.00	0.00	0.00	0.10	0.01
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	8.05	0.00	0.00	0.00	0.05	0.00
5285	5280	5290	-21.92	0.02	0.00	0.00	0.14	0.03
5290	5290	5295	-21.92	0.02	0.00	0.00	0.25	0.10
5292	5265	5292	-4.10	0.00	0.00	0.00	0.05	0.00
5295	5292	5297	-4.10	0.00	0.00	0.00	0.05	0.00
5297	5295	5297	-18.81	0.03	0.00	0.00	0.21	0.08
5500	4540	5500	39.65	0.03	0.00	0.00	0.25	0.08
5510	4550	5510	29.67	0.01	0.00	0.00	0.19	0.04
5520	4560	5520	26.91	0.01	0.00	0.00	0.17	0.04
5530	5500	5530	35.56	0.02	0.00	0.00	0.23	0.06
5535	5040	5530	-71.71	0.10	0.00	0.00	0.46	0.23
5540	5510	5540	25.58	0.01	0.00	0.00	0.16	0.03
5545	5530	5540	-40.23	0.02	0.00	0.00	0.26	0.08
5550	5520	5550	22.82	0.01	0.00	0.00	0.15	0.03
5555	5540	5550	-18.73	0.01	0.00	0.00	0.12	0.02
6000	6000	5235	111.81	0.03	0.00	0.00	0.32	0.07
7000	30	7000	1017.28	0.16	0.00	0.00	1.28	0.59
7005	7000	7005	823.32	0.12	0.00	0.00	1.04	0.40
7010	7005	7010	739.88	0.10	0.00	0.00	0.93	0.33
7015	7010	7015	672.72	0.16	0.00	0.00	0.85	0.27
7020	7015	7020	472.14	0.09	0.00	0.00	0.60	0.14
7025	7020	7025	416.26	0.07	0.00	0.00	0.52	0.11
7030	7025	7030	865.76	0.03	0.00	0.00	1.09	0.44
7035	7030	7035	703.20	0.26	0.00	0.00	0.89	0.30
7040	7035	7040	683.44	0.15	0.00	0.00	0.86	0.28
7045	7040	7045	682.60	0.16	0.00	0.00	0.86	0.28
7050	7045	7050	658.98	0.07	0.00	0.00	0.83	0.26
7055	7050	7055	622.28	0.06	0.00	0.00	0.78	0.24
7060	7055	7060	661.90	0.14	0.00	0.00	0.83	0.27
7070	7060	7070	508.28	0.08	0.00	0.00	0.64	0.16
7075	8775	7070	-271.83	0.17	0.00	0.00	1.73	1.90
7080	7070	7080	236.45	0.18	0.00	0.00	0.67	0.29
7100	7000	7100	47.18	0.07	0.00	0.00	0.30	0.10
7105	7100	7005	38.80	0.05	0.00	0.00	0.25	0.07





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7110	7010	7110	44.97	0.11	0.00	0.00	0.51	0.39
7120	7110	7120	19.01	0.05	0.00	0.00	0.22	0.08
7125	7015	7120	-16.17	0.00	0.00	0.00	0.10	0.01
7130	7120	7130	5.16	0.00	0.00	0.00	0.06	0.01
7135	7130	7020	40.94	0.09	0.00	0.00	0.46	0.32
7140	7140	7150	13.38	0.02	0.00	0.00	0.15	0.04
7145	7140	7110	-19.67	0.02	0.00	0.00	0.22	0.08
7150	7150	7160	-8.85	0.01	0.00	0.00	0.10	0.02
7155	7150	7120	12.27	0.00	0.00	0.00	0.08	0.01
7165	7160	7130	18.14	0.02	0.00	0.00	0.21	0.07
7167	7160	7210	-37.47	0.18	0.00	0.00	0.43	0.28
7200	7025	7200	-454.48	0.27	0.00	0.00	1.29	0.96
7210	7200	7210	-263.85	0.09	0.00	0.00	0.75	0.35
7215	7200	7210	-225.41	0.09	0.00	0.00	0.64	0.26
7220	7130	7200	-28.13	0.11	0.00	0.00	0.32	0.16
7300	7300	7310	-114.30	0.42	0.00	0.00	1.30	2.17
7310	7310	7000	-138.91	0.28	0.00	0.00	0.89	0.77
7320	7310	7320	19.37	0.02	0.00	0.00	0.22	0.08
7325	7320	7005	-114.38	0.18	0.00	0.00	0.73	0.54
7330	7320	7330	128.51	0.21	0.00	0.00	0.82	0.66
7340	7330	7340	124.13	0.33	0.00	0.00	0.79	0.62
7343	7340	7400	232.30	0.49	0.00	0.00	1.48	1.99
7345	7340	7300	-112.55	0.14	0.00	0.00	0.72	0.52
7350	7015	7350	201.03	0.42	0.00	0.00	1.28	1.52
7355	7350	7360	7.63	0.01	0.00	0.00	0.09	0.01
7360	7360	7020	-85.11	0.34	0.00	0.00	0.97	1.26
7365	7360	7380	86.14	0.35	0.00	0.00	0.98	1.29
7370	7370	7350	-188.16	0.35	0.00	0.00	1.20	1.35
7373	7370	7410	174.77	0.35	0.00	0.00	1.12	1.17
7375	7370	7380	8.15	0.01	0.00	0.00	0.09	0.02
7385	7380	7415	87.69	0.40	0.00	0.00	0.99	1.33
7390	7420	7390	1.60	0.00	0.00	0.00	0.02	0.00
7400	7400	7405	30.88	0.12	0.00	0.00	0.35	0.19
7403	7400	7430	191.20	0.42	0.00	0.00	1.22	1.39
7405	7405	7410	20.67	0.07	0.00	0.00	0.23	0.09
7410	7410	7415	19.64	0.06	0.00	0.00	0.22	0.08
7413	7410	7440	157.20	0.30	0.00	0.00	1.00	0.96
7415	7415	7420	27.80	0.03	0.00	0.00	0.32	0.16
7418	7415	7445	68.42	0.25	0.00	0.00	0.78	0.84
7420	7420	7425	13.36	0.02	0.00	0.00	0.15	0.04
7425	7425	7450	7.70	0.01	0.00	0.00	0.09	0.01
7430	7430	7435	18.55	0.04	0.00	0.00	0.21	0.07
7433	7430	7455	162.43	0.30	0.00	0.00	1.04	1.03
7435	7435	7440	8.33	0.01	0.00	0.00	0.09	0.02



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7440	7440	7445	7.63	0.01	0.00	0.00	0.09	0.01
7443	7440	7465	140.97	0.25	0.00	0.00	0.90	0.79
7448	7445	7470	63.48	0.23	0.00	0.00	0.72	0.73
7455	7455	7460	5.38	0.00	0.00	0.00	0.06	0.01
7458	7455	7480	146.84	0.27	0.00	0.00	0.94	0.85
7459	7495	7520	53.58	0.11	0.00	0.00	0.61	0.53
7460	7460	7465	-4.84	0.00	0.00	0.00	0.05	0.01
7465	7465	7470	-7.73	0.01	0.00	0.00	0.09	0.01
7468	7465	7490	127.24	0.20	0.00	0.00	0.81	0.65
7473	7470	7495	43.23	0.11	0.00	0.00	0.49	0.36
7480	7480	7485	-8.70	0.01	0.00	0.00	0.10	0.02
7483	7480	7505	143.88	0.16	0.00	0.00	0.92	0.82
7485	7485	7490	-18.92	0.06	0.00	0.00	0.21	0.08
7490	7490	7495	-26.52	0.10	0.00	0.00	0.30	0.15
7493	7490	7515	113.76	0.10	0.00	0.00	0.73	0.53
7495	7495	7500	-54.29	0.36	0.00	0.00	0.62	0.55
7500	7500	7475	0.31	0.00	0.00	0.00	0.00	0.00
7503	7500	7080	-63.77	0.12	0.00	0.00	0.72	0.74
7504	7080	7525	170.98	0.23	0.00	0.00	1.94	4.58
7505	7505	7510	12.79	0.01	0.00	0.00	0.08	0.01
7508	7505	7550	127.42	0.26	0.00	0.00	0.81	0.65
7510	7510	7515	-67.33	0.13	0.00	0.00	0.43	0.20
7513	7510	7530	72.78	0.20	0.00	0.00	0.83	0.94
7515	7515	7520	-54.94	0.09	0.00	0.00	0.35	0.14
7518	7515	7535	94.03	0.32	0.00	0.00	1.07	1.51
7520	7520	7525	-113.69	0.36	0.00	0.00	0.73	0.53
7523	7520	7540	105.00	0.40	0.00	0.00	1.19	1.86
7528	7525	7545	52.20	0.73	0.00	0.00	1.33	3.66
7530	7530	7535	-6.40	0.01	0.00	0.00	0.07	0.01
7533	7530	7555	75.52	0.19	0.00	0.00	0.86	1.01
7535	7535	7540	-10.51	0.02	0.00	0.00	0.12	0.03
7538	7535	7565	90.80	0.51	0.00	0.00	1.03	1.42
7540	7540	7545	-13.03	0.03	0.00	0.00	0.15	0.04
7543	7540	7570	100.18	0.60	0.00	0.00	1.14	1.70
7548	7545	7575	35.50	0.65	0.00	0.00	0.91	1.79
7550	7550	7555	31.34	0.13	0.00	0.00	0.36	0.20
7553	7550	7573	88.75	0.12	0.00	0.00	0.57	0.33
7558	7555	7560	99.52	0.30	0.00	0.00	1.13	1.68
7560	7560	7565	10.93	0.02	0.00	0.00	0.12	0.03
7563	7560	7577	81.26	0.05	0.00	0.00	0.52	0.28
7565	7565	7570	21.94	0.07	0.00	0.00	0.25	0.10
7568	7565	7590	65.12	0.28	0.00	0.00	0.74	0.77
7570	7570	7575	13.98	0.03	0.00	0.00	0.16	0.04
7572	7573	7577	115.10	0.36	0.00	0.00	0.73	0.54



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7573	7570	7595	93.46	0.55	0.00	0.00	1.06	1.50
7576	7573	7580	-33.69	0.01	0.00	0.00	0.22	0.06
7577	7577	7585	189.03	0.25	0.00	0.00	1.21	1.36
7578	7575	7600	42.15	0.89	0.00	0.00	1.08	2.47
7582	7580	80	-39.28	0.01	0.00	0.00	0.25	0.07
7583	7580	7605	5.58	0.00	0.00	0.00	0.06	0.01
7585	7585	7590	0.38	0.00	0.00	0.00	0.00	0.00
7588	7585	7610	181.31	0.44	0.00	0.00	1.16	1.26
7590	7590	7595	51.62	0.34	0.00	0.00	0.59	0.50
7595	7595	7600	53.93	0.36	0.00	0.00	0.61	0.54
7598	7595	7620	77.26	0.36	0.00	0.00	0.88	1.05
7603	7600	7625	89.14	0.11	0.00	0.00	0.57	0.34
7610	7610	7615	73.64	0.15	0.00	0.00	0.47	0.24
7613	7610	10000	101.12	0.13	0.00	0.00	0.65	0.43
7615	7615	7620	60.54	0.11	0.00	0.00	0.39	0.16
7620	7620	7625	61.01	0.11	0.00	0.00	0.39	0.17
7623	7620	10020	63.50	0.23	0.00	0.00	0.72	0.73
7628	7625	10030	143.41	0.27	0.00	0.00	0.92	0.81
7700	510	7700	48.52	0.30	0.00	0.00	0.55	0.44
7703	7700	7720	701.04	0.19	0.00	0.00	1.12	0.53
7705	7700	7705	40.68	0.22	0.00	0.00	0.46	0.32
7710	7705	7710	28.19	0.11	0.00	0.00	0.32	0.16
7713	7710	7730	114.98	0.19	0.00	0.00	0.73	0.54
7715	7710	7715	4.09	0.00	0.00	0.00	0.05	0.00
7718	7715	7735	19.32	0.21	0.00	0.00	0.49	0.58
7720	505	7720	24.81	0.09	0.00	0.00	0.28	0.13
7723	7720	7740	664.73	0.17	0.00	0.00	1.06	0.48
7725	7720	7725	42.18	0.23	0.00	0.00	0.48	0.34
7730	7725	7730	28.21	0.11	0.00	0.00	0.32	0.16
7733	7730	7750	120.44	0.21	0.00	0.00	0.77	0.59
7735	7730	7735	11.67	0.02	0.00	0.00	0.13	0.03
7738	7735	7755	25.28	0.33	0.00	0.00	0.65	0.96
7740	500	7740	-48.91	0.03	0.00	0.00	0.20	0.04
7743	7740	7760	498.37	0.39	0.00	0.00	1.41	1.14
7745	7740	7745	106.52	0.11	0.00	0.00	0.44	0.16
7750	7745	7750	95.88	0.27	0.00	0.00	0.61	0.39
7753	7750	7770	130.33	0.24	0.00	0.00	0.83	0.68
7755	7750	7755	71.42	0.15	0.00	0.00	0.46	0.22
7758	7755	7775	36.79	0.09	0.00	0.00	0.42	0.27
7760	495	7760	-3.18	0.00	0.00	0.00	0.04	0.00
7763	7760	7780	441.02	0.34	0.00	0.00	1.25	0.91
7765	7760	7765	36.41	0.18	0.00	0.00	0.41	0.26
7770	7765	7770	17.39	0.05	0.00	0.00	0.20	0.07
7773	7770	7790	132.14	0.25	0.00	0.00	0.84	0.70





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7775	7770	7775	-3.15	0.00	0.00	0.00	0.04	0.00
7778	7775	7795	25.38	0.35	0.00	0.00	0.65	0.96
7780	490	7780	-11.50	0.02	0.00	0.00	0.13	0.03
7782	7780	7805	381.90	0.12	0.00	0.00	1.08	0.69
7783	7805	7800	356.16	0.12	0.00	0.00	1.01	0.61
7785	7780	7785	30.01	0.12	0.00	0.00	0.34	0.18
7790	7785	7790	9.73	0.02	0.00	0.00	0.11	0.02
7793	7790	7820	94.81	0.14	0.00	0.00	0.61	0.38
7795	7790	7795	27.15	0.10	0.00	0.00	0.31	0.15
7798	7795	7825	45.46	0.15	0.00	0.00	0.52	0.39
7800	485	7800	-23.04	0.08	0.00	0.00	0.26	0.11
7803	7800	7900	333.00	0.10	0.00	0.00	0.94	0.54
7805	7805	7810	24.69	0.08	0.00	0.00	0.28	0.13
7810	7800	7815	-2.95	0.01	0.00	0.00	0.08	0.02
7813	7810	7815	23.65	0.02	0.00	0.00	0.27	0.12
7815	7815	7820	19.39	0.06	0.00	0.00	0.22	0.08
7820	7820	7825	9.58	0.10	0.00	0.00	0.24	0.16
7823	7820	7910	101.20	0.08	0.00	0.00	0.65	0.43
7828	7825	7915	52.95	0.00	0.00	0.00	0.15	0.02
7830	465	7830	-20.28	0.06	0.00	0.00	0.23	0.09
7833	7830	7940	94.39	0.14	0.00	0.00	0.60	0.38
7835	7830	7835	-12.36	0.02	0.00	0.00	0.14	0.04
7840	7835	7840	-14.06	0.03	0.00	0.00	0.16	0.04
7843	7840	7950	51.78	0.04	0.00	0.00	0.33	0.12
7845	7840	7845	-8.29	0.01	0.00	0.00	0.09	0.02
7848	7845	7955	130.73	0.04	0.00	0.00	0.37	0.10
7850	705	7850	-64.79	0.13	0.00	0.00	0.41	0.19
7855	7850	7855	19.36	0.01	0.00	0.00	0.12	0.02
7860	7855	7860	16.64	0.00	0.00	0.00	0.11	0.02
7862	7860	7880	99.56	0.20	0.00	0.00	1.13	1.68
7865	7860	7865	-85.54	0.15	0.00	0.00	0.55	0.31
7870	7865	7870	4.40	0.00	0.00	0.00	0.03	0.00
7875	7875	7880	-49.78	0.08	0.00	0.00	0.56	0.47
7880	7880	7885	49.78	0.17	0.00	0.00	0.56	0.47
7890	7890	7895	-49.78	0.22	0.00	0.00	0.56	0.47
7898	8000	7895	51.09	0.04	0.00	0.00	0.33	0.12
7900	480	7900	-71.46	0.02	0.00	0.00	0.20	0.03
7903	7900	7920	191.77	0.07	0.00	0.00	0.54	0.19
7905	7900	7905	57.30	0.01	0.00	0.00	0.16	0.02
7910	7905	7910	46.40	0.01	0.00	0.00	0.13	0.01
7913	7910	7930	58.68	0.06	0.00	0.00	0.37	0.16
7915	7910	7915	78.52	0.02	0.00	0.00	0.22	0.04
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	129.35	0.04	0.00	0.00	0.37	0.09





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7920	470	7920	-48.67	0.08	0.00	0.00	0.31	0.11
7923	7920	7830	107.55	0.10	0.00	0.00	0.69	0.48
7925	7920	7925	30.19	0.00	0.00	0.00	0.09	0.01
7930	7925	7930	24.95	0.00	0.00	0.00	0.07	0.00
7933	7930	7840	61.48	0.03	0.00	0.00	0.39	0.17
7935	7930	7935	16.90	0.00	0.00	0.00	0.05	0.00
7937	7845	7937	0.29	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	142.32	0.02	0.00	0.00	0.40	0.11
7940	700	7940	-128.41	0.06	0.00	0.00	0.36	0.09
7943	7940	7850	88.97	0.12	0.00	0.00	0.57	0.34
7945	7940	7945	-134.26	0.07	0.00	0.00	0.38	0.10
7950	7945	7950	-145.53	0.08	0.00	0.00	0.41	0.12
7953	7950	7865	92.56	0.13	0.00	0.00	0.59	0.36
7955	7950	7955	-194.96	0.02	0.00	0.00	0.25	0.03
8000	710	8000	39.64	0.21	0.00	0.00	0.45	0.31
8003	8000	8020	-30.97	0.01	0.00	0.00	0.20	0.05
8005	8000	8005	12.13	0.02	0.00	0.00	0.14	0.03
8010	8005	8010	3.53	0.00	0.00	0.00	0.04	0.00
8013	8010	8030	-5.72	0.00	0.00	0.00	0.06	0.01
8015	8010	8015	2.17	0.00	0.00	0.00	0.02	0.00
8020	715	8020	33.06	0.15	0.00	0.00	0.38	0.22
8023	8020	8040	-18.84	0.01	0.00	0.00	0.12	0.02
8025	8020	8025	13.54	0.02	0.00	0.00	0.15	0.04
8030	8025	8030	4.61	0.00	0.00	0.00	0.05	0.01
8033	8030	8050	-18.66	0.03	0.00	0.00	0.21	0.08
8035	8030	8035	6.16	0.01	0.00	0.00	0.07	0.01
8040	720	8040	110.75	0.05	0.00	0.00	0.31	0.07
8043	8040	8060	42.89	0.03	0.00	0.00	0.27	0.09
8045	8040	8045	35.34	0.01	0.00	0.00	0.10	0.01
8050	8045	8050	21.67	0.00	0.00	0.00	0.06	0.00
8053	8050	8070	37.74	0.09	0.00	0.00	0.43	0.28
8055	8050	8055	-46.26	0.01	0.00	0.00	0.13	0.01
8060	725	8060	12.99	0.03	0.00	0.00	0.15	0.04
8065	8060	8065	36.08	0.17	0.00	0.00	0.41	0.26
8070	8065	8070	-27.26	0.10	0.00	0.00	0.31	0.15
8075	8075	8060	-8.80	0.01	0.00	0.00	0.10	0.02
8080	730	8080	9.07	0.00	0.00	0.00	0.06	0.00
8085	8080	8085	4.53	0.01	0.00	0.00	0.12	0.04
8090	8065	8090	55.47	0.11	0.00	0.00	0.35	0.14
8095	8090	8095	-2.59	0.00	0.00	0.00	0.02	0.00
8100	750	8100	55.69	0.10	0.00	0.00	0.36	0.14
8105	8100	8105	55.69	0.05	0.00	0.00	0.36	0.14
8110	8105	8110	28.12	0.01	0.00	0.00	0.18	0.04
8115	8105	8115	21.24	0.01	0.00	0.00	0.14	0.02



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8117	8115	8120	0.31	0.00	0.00	0.00	0.00	0.00
8120	8110	8120	7.34	0.00	0.00	0.00	0.05	0.00
8125	8115	8125	1.31	0.00	0.00	0.00	0.01	0.00
8130	8120	8130	1.31	0.00	0.00	0.00	0.01	0.00
8135	8095	8135	-12.83	0.00	0.00	0.00	0.08	0.01
8137	8135	8115	-15.66	0.00	0.00	0.00	0.10	0.01
8140	8095	8140	0.55	0.00	0.00	0.00	0.00	0.00
8145	8110	8145	16.82	0.01	0.00	0.00	0.11	0.02
8200	8055	8200	-50.98	0.04	0.00	0.00	0.33	0.12
8205	8200	8205	0.50	0.00	0.00	0.00	0.01	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-52.00	0.07	0.00	0.00	0.33	0.12
8220	8215	8220	-32.19	0.14	0.00	0.00	0.37	0.21
8225	8220	8225	-44.24	0.21	0.00	0.00	0.50	0.37
8227	8225	8240	111.53	0.03	0.00	0.00	0.32	0.07
8230	8215	8230	-27.35	0.02	0.00	0.00	0.17	0.04
8235	8230	8235	-28.95	0.11	0.00	0.00	0.33	0.17
8240	8235	8240	-41.00	0.18	0.00	0.00	0.47	0.33
8247	8240	8265	58.48	0.01	0.00	0.00	0.17	0.02
8250	8230	8250	-10.46	0.00	0.00	0.00	0.07	0.01
8255	8250	8255	-16.48	0.04	0.00	0.00	0.19	0.06
8260	8255	8260	-25.74	0.01	0.00	0.00	0.29	0.14
8265	8260	8265	-48.53	0.24	0.00	0.00	0.55	0.44
8270	8255	8270	3.23	0.00	0.00	0.00	0.02	0.00
8275	8270	8275	0.08	0.00	0.00	0.00	0.00	0.00
8278	8275	8290	-5.76	0.00	0.00	0.00	0.04	0.00
8280	8275	8280	2.70	0.00	0.00	0.00	0.02	0.00
8285	8280	8285	-0.45	0.00	0.00	0.00	0.00	0.00
8290	8285	8290	-5.29	0.00	0.00	0.00	0.03	0.00
8295	8290	8295	-15.90	0.00	0.00	0.00	0.10	0.01
8297	8295	8260	-16.76	0.00	0.00	0.00	0.11	0.02
8300	10200	8300	95.47	0.23	0.00	0.00	0.61	0.38
8303	10200	8300	45.19	0.23	0.00	0.00	0.51	0.39
8305	8300	8310	138.38	0.08	0.00	0.00	0.39	0.11
8310	8310	8320	166.68	0.10	0.00	0.00	0.47	0.15
8325	8320	8225	166.20	0.03	0.00	0.00	0.47	0.15
8330	8310	8330	-28.29	0.02	0.00	0.00	0.18	0.04
8340	8330	8340	-28.29	0.03	0.00	0.00	0.18	0.04
8350	8340	8350	2.62	0.00	0.00	0.00	0.03	0.00
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-30.91	0.12	0.00	0.00	0.35	0.19
8390	8380	10190	-34.84	0.16	0.00	0.00	0.40	0.24
8400	10070	8400	-2.59	0.00	0.00	0.00	0.02	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8410	8400	8410	46.01	0.04	0.00	0.00	0.29	0.10
8420	8410	8420	37.55	0.01	0.00	0.00	0.24	0.07
8425	8420	10080	42.92	0.00	0.00	0.00	0.12	0.01
8430	8410	8430	8.14	0.00	0.00	0.00	0.05	0.00
8440	8430	8440	7.83	0.00	0.00	0.00	0.05	0.00
8450	8440	8450	5.89	0.00	0.00	0.00	0.07	0.01
8455	8450	8420	5.37	0.00	0.00	0.00	0.02	0.00
8460	8440	8460	1.36	0.00	0.00	0.00	0.03	0.00
8470	8460	8470	0.68	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	206.13	0.08	0.00	0.00	0.58	0.22
8510	8500	8510	205.47	0.08	0.00	0.00	0.58	0.22
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	166.83	0.06	0.00	0.00	0.47	0.15
8525	8520	8525	4.03	0.00	0.00	0.00	0.05	0.00
8530	8520	8530	162.25	0.03	0.00	0.00	0.46	0.14
8540	8530	8540	162.12	0.03	0.00	0.00	0.46	0.14
8550	8540	8550	160.31	0.05	0.00	0.00	0.45	0.14
8555	8550	10200	122.00	0.08	0.00	0.00	0.50	0.20
8560	8550	8560	13.39	0.01	0.00	0.00	0.09	0.01
8600	10100	8600	44.56	0.14	0.00	0.00	0.51	0.38
8605	8600	8610	20.11	0.03	0.00	0.00	0.23	0.09
8610	10110	8610	37.43	0.10	0.00	0.00	0.42	0.27
8615	8610	10140	20.17	0.06	0.00	0.00	0.23	0.09
8620	8600	8620	20.54	0.03	0.00	0.00	0.23	0.09
8622	8620	8510	-37.70	0.10	0.00	0.00	0.43	0.28
8625	8620	8630	24.79	0.05	0.00	0.00	0.28	0.13
8630	8610	8630	24.77	0.05	0.00	0.00	0.28	0.13
8635	8630	10160	17.23	0.05	0.00	0.00	0.20	0.07
8640	8620	8640	29.18	0.06	0.00	0.00	0.33	0.17
8645	8640	8650	10.27	0.01	0.00	0.00	0.12	0.03
8650	8630	8650	18.58	0.03	0.00	0.00	0.21	0.08
8655	8650	10170	13.51	0.03	0.00	0.00	0.15	0.04
8660	8640	8660	17.99	0.01	0.00	0.00	0.11	0.02
8665	8660	8670	24.81	0.01	0.00	0.00	0.16	0.03
8670	8650	8670	9.94	0.01	0.00	0.00	0.11	0.02
8675	8670	10180	13.94	0.03	0.00	0.00	0.16	0.04
8680	8660	8680	-7.45	0.01	0.00	0.00	0.08	0.01
8685	8680	8550	-11.38	0.00	0.00	0.00	0.07	0.01
8690	8670	8690	18.44	0.05	0.00	0.00	0.21	0.07
8692	8690	10200	26.78	0.01	0.00	0.00	0.11	0.01
8695	8690	10190	-8.33	0.00	0.00	0.00	0.03	0.00
8700	8400	8700	-52.95	0.07	0.00	0.00	0.34	0.13
8705	8700	7755	-48.52	0.01	0.00	0.00	0.31	0.11
8710	8700	8710	-8.83	0.05	0.00	0.00	0.23	0.14





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8715	8710	10060	-15.14	0.03	0.00	0.00	0.17	0.05
8720	10060	8720	2.78	0.00	0.00	0.00	0.03	0.00
8725	8725	10050	-5.27	0.00	0.00	0.00	0.06	0.01
8730	10050	8730	3.22	0.00	0.00	0.00	0.04	0.00
8735	10040	8735	6.47	0.01	0.00	0.00	0.07	0.01
8740	10040	8740	-127.55	0.16	0.00	0.00	0.81	0.66
8745	8740	8745	4.59	0.00	0.00	0.00	0.05	0.01
8750	8740	8750	-136.72	0.09	0.00	0.00	0.87	0.75
8755	8750	8755	117.90	1.28	0.00	0.00	1.34	2.30
8760	8750	8760	-259.15	1.31	0.00	0.00	1.65	2.44
8765	8760	8765	1.68	0.00	0.00	0.00	0.02	0.00
8770	8760	8770	1.31	0.00	0.00	0.00	0.01	0.00
8775	8760	8775	-267.90	1.55	0.00	0.00	1.71	2.59
8800	10100	8800	0.52	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	2.97	0.00	0.00	0.00	0.03	0.00
8810	8810	8900	10.50	0.12	0.00	0.00	0.27	0.19
8815	8810	8820	-13.71	0.02	0.00	0.00	0.16	0.04
8820	8820	8910	34.34	0.16	0.00	0.00	0.39	0.23
8825	8820	8830	-55.39	0.20	0.00	0.00	0.63	0.57
8830	8830	8920	54.63	0.36	0.00	0.00	0.62	0.55
8835	8830	8840	-112.45	0.86	0.00	0.00	1.28	2.11
8840	8840	8845	0.86	0.00	0.00	0.00	0.01	0.00
8845	8840	8850	-114.16	1.49	0.00	0.00	1.30	2.17
8850	8850	8970	-115.26	1.50	0.00	0.00	1.31	2.20
8900	8900	10120	-114.66	0.02	0.00	0.00	0.33	0.07
8910	8900	8910	87.15	0.02	0.00	0.00	0.25	0.04
8920	8910	8920	79.64	0.01	0.00	0.00	0.23	0.04
8930	8920	8930	89.17	0.02	0.00	0.00	0.25	0.05
8940	8930	8940	69.38	0.01	0.00	0.00	0.20	0.03
8950	8940	8950	69.09	0.01	0.00	0.00	0.20	0.03
8960	8950	8960	68.83	0.02	0.00	0.00	0.20	0.03
8970	8970	8975	2.83	0.00	0.00	0.00	0.01	0.00
8980	8970	8980	-119.13	0.04	0.00	0.00	0.34	0.08
8990	8980	7060	-153.61	0.05	0.00	0.00	0.44	0.13
9000	10190	9000	55.81	0.02	0.00	0.00	0.16	0.02
9010	9000	9010	53.50	0.01	0.00	0.00	0.15	0.02
9020	9010	9020	53.40	0.01	0.00	0.00	0.15	0.02
9030	9020	9030	53.40	0.01	0.00	0.00	0.15	0.02
9040	9040	9030	-52.74	0.01	0.00	0.00	0.15	0.02
9050	9040	9050	52.74	0.01	0.00	0.00	0.15	0.02
9060	9050	9060	24.90	0.00	0.00	0.00	0.07	0.00
9070	9060	9070	6.22	0.00	0.00	0.00	0.02	0.00
9080	9070	9080	-15.61	0.00	0.00	0.00	0.04	0.00
9090	9080	9090	-37.20	0.00	0.00	0.00	0.11	0.01





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9100	9090	9100	-45.40	0.00	0.00	0.00	0.13	0.01
9110	9100	9110	-57.68	0.01	0.00	0.00	0.16	0.02
9115	9110	9115	2.62	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-56.82	0.01	0.00	0.00	0.16	0.02
9130	9120	9130	-44.09	0.01	0.00	0.00	0.13	0.01
9140	9130	9140	-21.76	0.00	0.00	0.00	0.06	0.00
9150	9140	9150	-22.73	0.00	0.00	0.00	0.06	0.00
9160	9150	9160	-46.58	0.01	0.00	0.00	0.13	0.01
9170	9170	9160	46.58	0.00	0.00	0.00	0.13	0.01
9175	9170	9175	8.50	0.00	0.00	0.00	0.05	0.00
9180	9180	9170	67.34	0.02	0.00	0.00	0.19	0.03
9190	9190	9180	67.34	0.02	0.00	0.00	0.19	0.03
9195	8960	9190	67.34	0.00	0.00	0.00	0.19	0.03
9200	7055	9200	-25.65	0.01	0.00	0.00	0.16	0.03
9210	9200	9210	-30.28	0.02	0.00	0.00	0.19	0.05
9215	9210	9240	-34.92	0.02	0.00	0.00	0.22	0.06
9220	7050	9220	-7.87	0.00	0.00	0.00	0.05	0.00
9230	9220	9230	-11.90	0.00	0.00	0.00	0.08	0.01
9235	9230	9260	-55.00	0.04	0.00	0.00	0.35	0.14
9240	9230	9240	37.12	0.02	0.00	0.00	0.24	0.07
9250	7045	9250	31.36	0.02	0.00	0.00	0.20	0.05
9260	9250	9260	27.11	0.01	0.00	0.00	0.17	0.04
9265	9260	9280	-34.07	0.01	0.00	0.00	0.22	0.06
9270	7045	9860	-7.74	0.00	0.00	0.00	0.05	0.00
9275	9270	9860	-23.42	0.01	0.00	0.00	0.15	0.03
9280	9270	9280	19.36	0.01	0.00	0.00	0.12	0.02
9300	7030	9300	73.55	0.13	0.00	0.00	0.47	0.24
9310	9300	9310	73.55	0.07	0.00	0.00	0.47	0.24
9315	9330	9310	-73.55	0.07	0.00	0.00	0.47	0.24
9320	7030	9320	77.27	0.13	0.00	0.00	0.49	0.26
9330	9320	9330	74.91	0.14	0.00	0.00	0.48	0.24
9333	9330	9333	135.99	0.18	0.00	0.00	0.87	0.74
9335	9333	9337	51.91	0.06	0.00	0.00	0.33	0.12
9337	9370	9337	-67.27	0.06	0.00	0.00	0.43	0.20
9340	9280	9340	-20.13	0.00	0.00	0.00	0.06	0.00
9345	9340	9345	-8.26	0.00	0.00	0.00	0.05	0.00
9348	9345	9355	-11.25	0.00	0.00	0.00	0.07	0.01
9350	9340	9350	-16.45	0.00	0.00	0.00	0.11	0.01
9355	9350	9355	3.88	0.00	0.00	0.00	0.02	0.00
9360	9350	9360	-25.65	0.01	0.00	0.00	0.16	0.03
9365	9355	9365	-11.61	0.00	0.00	0.00	0.07	0.01
9368	9365	9385	-12.79	0.00	0.00	0.00	0.08	0.01
9370	9360	9370	-41.82	0.01	0.00	0.00	0.27	0.08
9375	9360	9375	10.09	0.00	0.00	0.00	0.06	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9380	9370	9380	21.59	0.00	0.00	0.00	0.14	0.02
9385	9375	9385	14.02	0.00	0.00	0.00	0.09	0.01
9387	9375	9390	-8.91	0.00	0.00	0.00	0.06	0.00
9390	9380	9390	17.11	0.01	0.00	0.00	0.11	0.02
9395	9390	9395	2.99	0.00	0.00	0.00	0.02	0.00
9400	7210	9400	-532.94	1.61	0.00	0.00	1.51	1.29
9410	9400	9410	34.19	0.00	0.00	0.00	0.10	0.01
9415	9410	9415	3.98	0.00	0.00	0.00	0.03	0.00
9420	9410	9420	31.57	0.00	0.00	0.00	0.09	0.01
9425	9415	9425	2.67	0.00	0.00	0.00	0.02	0.00
9430	9420	9430	24.52	0.00	0.00	0.00	0.07	0.00
9435	9425	9410	1.36	0.00	0.00	0.00	0.01	0.00
9440	9430	9440	24.52	0.00	0.00	0.00	0.07	0.00
9460	9400	9460	-576.72	0.08	0.00	0.00	0.73	0.21
9470	9460	9470	-579.86	0.06	0.00	0.00	0.73	0.21
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00
9490	9440	9490	5.66	0.00	0.00	0.00	0.04	0.00
9500	8930	9500	15.59	0.04	0.00	0.00	0.18	0.05
9503	9500	9510	-8.47	0.01	0.00	0.00	0.10	0.02
9505	9500	9505	17.51	0.04	0.00	0.00	0.20	0.07
9507	9175	9505	4.28	0.00	0.00	0.00	0.03	0.00
9510	8920	9510	38.34	0.05	0.00	0.00	0.24	0.07
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	19.63	0.05	0.00	0.00	0.22	0.08
9520	8910	9520	26.75	0.10	0.00	0.00	0.30	0.15
9525	9520	9525	15.15	0.03	0.00	0.00	0.17	0.05
9530	8900	9530	29.67	0.12	0.00	0.00	0.34	0.18
9535	9530	9535	18.48	0.05	0.00	0.00	0.21	0.07
9540	10130	9540	30.97	0.14	0.00	0.00	0.35	0.19
9545	9540	9545	20.54	0.06	0.00	0.00	0.23	0.09
9550	10150	9550	37.66	0.08	0.00	0.00	0.43	0.28
9555	9550	9555	37.66	0.11	0.00	0.00	0.43	0.28
9557	9555	9570	42.02	0.02	0.00	0.00	0.27	0.08
9560	9555	9560	-10.73	0.02	0.00	0.00	0.12	0.03
9565	10160	9565	142.98	0.24	0.00	0.00	0.91	0.81
9570	9565	9570	-50.90	0.05	0.00	0.00	0.32	0.12
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.18	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-8.88	0.00	0.00	0.00	0.06	0.00
9590	9590	9595	4.06	0.00	0.00	0.00	0.03	0.00
9600	9505	9600	19.43	0.00	0.00	0.00	0.12	0.02
9605	9600	9515	4.26	0.00	0.00	0.00	0.03	0.00
9610	9515	9605	17.24	0.02	0.00	0.00	0.20	0.07
9615	9605	9525	6.75	0.00	0.00	0.00	0.08	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9620	9525	9610	18.22	0.01	0.00	0.00	0.21	0.07
9625	9610	9535	12.16	0.01	0.00	0.00	0.14	0.03
9630	9535	9545	20.09	0.03	0.00	0.00	0.23	0.09
9635	9545	9560	27.32	0.01	0.00	0.00	0.17	0.04
9640	9560	9640	12.77	0.00	0.00	0.00	0.08	0.01
9645	9640	9585	14.15	0.03	0.00	0.00	0.16	0.05
9650	9640	9650	0.47	0.00	0.00	0.00	0.00	0.00
9655	9650	9590	7.52	0.00	0.00	0.00	0.05	0.00
9660	9595	9660	3.14	0.00	0.00	0.00	0.04	0.00
9665	9650	9670	-12.74	0.02	0.00	0.00	0.14	0.04
9670	9670	9675	1.73	0.00	0.00	0.00	0.02	0.00
9673	9670	9673	-16.69	0.00	0.00	0.00	0.11	0.02
9675	9680	9673	-11.15	0.00	0.00	0.00	0.07	0.01
9678	9673	9050	-27.84	0.02	0.00	0.00	0.18	0.04
9680	9640	9680	-13.09	0.03	0.00	0.00	0.15	0.04
9683	9680	9060	-13.30	0.02	0.00	0.00	0.15	0.04
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	12.26	0.01	0.00	0.00	0.08	0.01
9710	9700	9710	11.13	0.00	0.00	0.00	0.07	0.01
9720	9710	9720	11.13	0.00	0.00	0.00	0.07	0.01
9725	9720	9130	24.77	0.00	0.00	0.00	0.07	0.00
9730	9150	9730	18.62	0.00	0.00	0.00	0.05	0.00
9735	9730	9720	17.44	0.00	0.00	0.00	0.05	0.00
9740	9600	9740	15.17	0.01	0.00	0.00	0.10	0.01
9745	9740	9120	15.17	0.01	0.00	0.00	0.10	0.01
9750	9605	9750	6.98	0.01	0.00	0.00	0.08	0.01
9755	9750	9110	3.47	0.00	0.00	0.00	0.04	0.00
9760	9610	9760	3.86	0.00	0.00	0.00	0.02	0.00
9765	9760	9100	-5.70	0.00	0.00	0.00	0.04	0.00
9770	9535	9770	1.42	0.00	0.00	0.00	0.02	0.00
9775	9770	9090	-5.19	0.00	0.00	0.00	0.06	0.01
9780	9545	9780	-1.15	0.00	0.00	0.00	0.01	0.00
9785	9780	9080	-15.69	0.03	0.00	0.00	0.18	0.05
9790	9560	9790	-8.92	0.01	0.00	0.00	0.10	0.02
9795	9790	9070	-15.94	0.03	0.00	0.00	0.18	0.06
9800	9333	9800	82.09	0.04	0.00	0.00	0.52	0.29
9810	9800	9810	21.17	0.01	0.00	0.00	0.14	0.02
9815	9810	9337	18.26	0.00	0.00	0.00	0.12	0.02
9820	9800	9820	58.93	0.04	0.00	0.00	0.38	0.16
9830	9820	9830	20.23	0.01	0.00	0.00	0.13	0.02
9835	9830	9850	14.21	0.00	0.00	0.00	0.09	0.01
9840	9820	9840	33.46	0.01	0.00	0.00	0.21	0.05





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9850	9840	9850	-8.18	0.00	0.00	0.00	0.05	0.00
9860	9840	9860	36.40	0.02	0.00	0.00	0.23	0.06
9870	7050	9870	35.30	0.03	0.00	0.00	0.23	0.06
9880	9870	9880	29.27	0.01	0.00	0.00	0.19	0.04
9890	9880	7055	23.25	0.02	0.00	0.00	0.15	0.03
9900	9140	9900	0.00	0.00	0.00	0.00	0.00	0.00
9910	9900	9910	0.00	0.00	0.00	0.00	0.00	0.00
9920	9910	9920	0.00	0.00	0.00	0.00	0.00	0.00
10003	10000	7700	706.30	0.19	0.00	0.00	1.13	0.53
10005	100	10000	1287.05	0.64	0.00	0.00	1.62	0.91
10010	10000	10010	672.04	0.18	0.00	0.00	0.85	0.27
10020	10010	10020	658.94	0.19	0.00	0.00	0.83	0.26
10023	10020	7710	103.24	0.16	0.00	0.00	0.66	0.44
10030	10020	10030	606.11	0.15	0.00	0.00	0.76	0.23
10033	10030	7715	21.78	0.01	0.00	0.00	0.14	0.02
10040	10030	10040	716.05	0.21	0.00	0.00	0.90	0.31
10050	10040	10050	830.83	0.15	0.00	0.00	1.05	0.41
10060	10050	10060	813.85	0.14	0.00	0.00	1.03	0.39
10070	10060	10070	789.38	0.13	0.00	0.00	1.00	0.37
10080	10070	10080	791.97	0.05	0.00	0.00	1.00	0.37
10090	10080	10090	830.96	0.15	0.00	0.00	1.05	0.41
10100	10090	10100	624.59	0.09	0.00	0.00	0.79	0.24
10110	10100	10110	574.66	0.07	0.00	0.00	0.72	0.21
10115	10110	10115	532.28	0.01	0.00	0.00	0.67	0.18
10120	10115	10120	526.56	0.11	0.00	0.00	0.66	0.17
10130	10120	10130	407.53	0.02	0.00	0.00	0.51	0.11
10140	10130	10140	371.95	0.02	0.00	0.00	0.47	0.09
10150	10140	10150	383.43	0.02	0.00	0.00	0.48	0.10
10160	10150	10160	345.77	0.02	0.00	0.00	0.44	0.08
10170	10160	10170	195.13	0.01	0.00	0.00	0.25	0.03
10180	10170	10180	203.48	0.01	0.00	0.00	0.26	0.03
10185	10180	10185	215.93	0.00	0.00	0.00	0.27	0.03
10190	10185	10190	197.38	0.02	0.00	0.00	0.25	0.03
10195	10190	10195	96.04	0.01	0.00	0.00	0.12	0.01
10200	10195	10200	96.04	0.01	0.00	0.00	0.12	0.01
10210	10200	10210	88.68	0.00	0.00	0.00	0.11	0.01
10220	10210	7955	68.95	0.00	0.00	0.00	0.09	0.00
14100	4100	14100	16.75	0.00	0.00	0.00	0.11	0.02
14105	3080	14110	46.56	0.03	0.00	0.00	0.30	0.10
14110	14100	14110	11.51	0.00	0.00	0.00	0.07	0.01
14113	14110	14115	2.62	0.00	0.00	0.00	0.02	0.00
14115	14110	14130	47.60	0.03	0.00	0.00	0.30	0.11
14120	14120	4115	-15.91	0.00	0.00	0.00	0.10	0.01
14130	14120	14130	10.67	0.00	0.00	0.00	0.07	0.01





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
14133	14130	14135	2.62	0.00	0.00	0.00	0.02	0.00
14135	14130	14150	47.79	0.03	0.00	0.00	0.30	0.11
14140	4130	14140	25.13	0.01	0.00	0.00	0.16	0.03
14150	14150	14140	4.67	0.00	0.00	0.00	0.03	0.00
14155	14150	14170	39.84	0.02	0.00	0.00	0.25	0.08
14160	14140	14160	25.22	0.01	0.00	0.00	0.16	0.03
14170	14160	14170	18.01	0.01	0.00	0.00	0.11	0.02
14175	14170	4266	50.64	0.02	0.00	0.00	0.32	0.12
20000	0	20000	7356.65	0.10	0.00	0.00	3.34	1.92
20010	20000	20010	7356.65	0.10	0.00	0.00	3.34	1.92
20020	20010	20020	7356.65	0.10	0.00	0.00	3.34	1.92
20030	20020	20100	7356.65	0.14	0.00	0.00	3.34	1.92
20100	20100	20110	3670.79	0.22	0.00	0.91	7.65	21.63
20105	20100	20200	3685.87	0.01	0.00	0.02	1.67	0.53
20110	20110	20120	3670.79	0.55	119.54	4.21	10.41	45.82
20120	20120	20130	3670.79	0.46	0.00	2.53	10.41	45.82
20130	20130	20140	3670.79	0.55	0.00	0.84	10.41	45.82
20140	20140	20240	3670.79	0.17	0.00	0.27	5.86	11.29
20200	20200	20210	3685.87	0.22	0.00	0.92	7.68	21.79
20205	20200	20300	0.00	0.00	0.00	0.00	0.00	0.00
20210	20210	20220	3685.87	0.55	119.21	4.24	10.46	46.17
20220	20220	20230	3685.87	0.46	0.00	2.55	10.46	46.17
20230	20230	20240	3685.87	0.55	0.00	0.85	10.46	46.17
20240	20240	20340	7356.65	0.09	0.00	0.21	5.22	5.68
20300	20300	20310	0.00	0.00	0.00	0.00	0.00	0.00
20305	20300	20400	0.00	0.00	0.00	0.00	0.00	0.00
20310	20310	20320						
20320	20320	20330	0	0	0	0	0	0
20330	20330	20340	0	0	0	0	0	0
20340	20340	20440	7356.65	0.03	0	0.09	3.34	1.92
20400	20400	20410	0	0	0	0	0	0
20410	20410	20420						
20420	20420	20430	0	0	0	0	0	0
20430	20430	20440	0	0	0	0	0	0
20440	20440	20500	7356.65	0.48	0	0.09	3.34	1.92
20500	20500	5	7356.65	0.4	0	0	3.34	1.92
21000	5040	21000	0	0	0	0	0	0
21010	21000	21010	0	0	0	0	0	0
21020	21010	21020	0	0	0	0	0	0
21030	21330	21020	0	0	0	0	0	0
21040	21100	21040	0	0	0	0	0	0
21050	21040	21050	0	0	0	0	0	0
21060	21020	21050						
21100	21100	21110	0	0	0	0	0	0



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
P I P E L I N E R E S U L T S

RUN-1

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
21105	21100	21200	0	0	0	0	0	0
21110	21110	21120						
21120	21120	21130	0	0	0	0	0	0
21130	21130	21230	0	0	0	0	0	0
21200	21200	21210	0	0	0	0	0	0
21205	21200	21300	0	0	0	0	0	0
21210	21210	21220						
21220	21220	21230	0	0	0	0	0	0
21230	21230	21330	0	0	0	0	0	0
21400	21050	0	0	0	0	0	0	0
23000	6000	23000	128.96	0.01	0	0	0.16	0.01
23010	23000	23010	128.52	0.01	0	0	0.16	0.01
23020	23010	23020	1.31	0	0	0	0	0
23030	23020	23030	1.31	0	0	0	0	0
23040	23030	23040	1.31	0	0	0	0	0
23050	23010	23050	127.21	0.01	0	0	{**Gá **=?**	
23060	23050	23060	127.21	0.01	0	0	0.16	0.01
23070	23060	23070	79.99	0	0	0	0.1	0.01
23080	23070	23100	53.58	0	0	0	0.07	0
23100	23120	5295	6.23	0	0	0	0.03	0
23110	23100	23110	53.58	0.03	0	0	0.22	0.04
23120	23110	23120	9.04	0	0	0	0.04	0
23200	5297	23200	-22.91	0	0	0	0.06	0
23210	23200	23210	-22.91	0	0	0	0.06	0
23220	23210	23220	-22.91	0	0	0	0.06	0
23230	23220	23070	-22.91	0	0	0	0.06	0
23235	23070	23230	-1.99	0	0	0	0.01	0
23240	23230	23240	-7.49	0	0	0	0.02	0
23400	5265	23400	-33.17	0	0	0	0.09	0.01
23410	23400	23410	-33.17	0	0	0	0.09	0.01
23420	23410	23420	-33.17	0	0	0	0.09	0.01
23430	23420	23060	-33.17	0	0	0	0.09	0.01
23445	23240	23540	-14.04	0	0	0	0.04	0
23500	23060	23500	14.04	0	0	0	0.04	0
23510	23500	23510	14.04	0	0	0	0.04	0
23520	23510	23520	14.04	0	0	0	0.04	0
23530	23520	23530	14.04	0	0	0	0.04	0
23540	23530	23540	14.04	0	0	0	0.04	0
23550	23540	23550	0	0	0	0	0	0
24000	10	24000	269.86	14.06	0	0	1.72	2.63



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	198.04	67.50	130.54	56.57
10		0.00	197.83	67.50	130.33	56.48
15		0.00	196.63	66.50	130.13	56.39
20		0.00	195.48	66.50	128.98	55.89
30		0.00	194.46	64.00	130.46	56.53
40		0.00	194.11	62.50	131.61	57.03
50		4.06	193.94	61.00	132.94	57.61
60		4.98	193.09	60.50	132.59	57.46
70		4.98	192.43	60.00	132.43	57.39
80		0.42	191.47	58.00	133.47	57.84
90		4.77	191.06	57.50	133.56	57.88
100		7.26	190.90	57.00	133.90	58.02
210		0.00	197.92	68.50	129.42	56.08
220		0.00	196.20	68.50	127.70	55.34
230		0.00	194.53	67.00	127.53	55.26
240		0.00	193.36	66.00	127.36	55.19
250		0.00	192.08	64.50	127.58	55.28
260		54.08	191.17	64.00	127.17	55.11
270		7.86	190.92	63.00	127.92	55.43
280		0.00	190.79	62.50	128.29	55.59
300		15.85	190.45	62.00	128.45	55.66
305		9.27	190.23	61.00	129.23	56.00
310		9.64	190.15	60.50	129.65	56.18
315		10.48	190.08	60.00	130.08	56.37
320		13.36	190.21	59.50	130.71	56.64
325		18.47	190.51	58.50	132.01	57.20
330		12.10	190.73	58.00	132.73	57.52
335		4.77	190.81	57.80	133.01	57.64
400		8.23	189.80	59.50	130.30	56.46
405		8.20	189.58	59.00	130.58	56.58
410		8.20	189.37	59.00	130.37	56.49
415		13.20	189.26	58.50	130.76	56.66
420		8.20	189.01	58.00	131.01	56.77
425		16.01	188.85	57.50	131.35	56.92
430		0.00	188.76	57.50	131.26	56.88
435		7.36	188.69	57.00	131.69	57.06
440		3.69	188.55	56.00	132.55	57.44
445		2.10	188.49	55.80	132.69	57.50
450		14.54	188.43	55.80	132.63	57.47
455		14.41	188.33	55.60	132.73	57.52
457		7.94	188.35	55.20	133.15	57.70
459		14.12	188.38	53.80	134.58	58.32
460	9TH & BROA	0.00	188.40	53.50	134.90	58.46



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-1

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	13.62	188.41	52.70	135.71	58.81
470		4.48	188.49	52.50	135.99	58.93
475		1.55	188.55	52.80	135.75	58.83
480		0.97	188.62	53.30	135.32	58.64
485		7.62	188.67	53.50	135.17	58.57
490		21.01	188.96	53.80	135.16	58.57
495		17.92	189.32	54.00	135.32	58.64
500		10.72	189.69	54.80	134.89	58.45
505		15.62	189.97	55.70	134.27	58.19
510		12.60	190.37	56.40	133.97	58.05
600		7.36	188.20	55.50	132.70	57.50
605		12.97	188.12	55.30	132.82	57.56
610		26.62	187.91	55.00	132.91	57.59
615		8.20	187.80	54.00	133.80	57.98
620		8.83	187.70	53.00	134.70	58.37
625		6.13	187.67	52.00	135.67	58.79
630		1.83	187.64	51.80	135.84	58.87
635		1.83	187.62	51.70	135.92	58.90
640		2.62	187.61	51.50	136.11	58.98
645		44.88	187.60	51.50	136.10	58.98
650		0.00	187.59	51.40	136.19	59.01
655		10.51	187.57	51.30	136.27	59.05
660		9.51	187.55	51.00	136.55	59.17
700		16.90	188.27	52.50	135.77	58.84
705		7.44	188.09	52.20	135.89	58.88
710		9.20	187.82	51.70	136.12	58.98
715		7.60	187.76	51.40	136.36	59.09
720		20.59	187.67	51.20	136.47	59.14
725		11.03	187.62	50.80	136.82	59.29
730		18.21	187.55	50.60	136.95	59.34
735		20.49	187.52	50.40	137.12	59.42
740		18.94	187.50	50.20	137.30	59.50
745		9.51	187.49	50.20	137.29	59.49
750		0.00	187.48	49.80	137.68	59.66
800		7.41	189.56	60.50	129.06	55.92
810		13.65	189.34	61.80	127.54	55.27
820		7.86	189.19	63.00	126.19	54.68
830		7.86	189.11	63.40	125.71	54.47
840		4.59	188.99	63.60	125.39	54.33
850		0.00	188.89	63.00	125.89	54.55
860		7.47	188.98	63.60	125.38	54.33
870		2.62	188.98	60.70	128.28	55.59
880		7.00	188.99	60.00	128.99	55.90







CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-1

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		7.00	189.01	59.70	129.31	56.04
900		8.20	189.00	59.00	130.00	56.33
910		26.93	188.99	59.80	129.19	55.98
920		19.94	188.86	60.30	128.56	55.71
935		2.93	188.76	61.70	127.06	55.06
940		2.93	188.74	62.00	126.74	54.92
950		6.24	188.72	62.50	126.22	54.69
960		6.76	188.69	63.00	125.69	54.47
970		9.62	188.69	63.50	125.19	54.25
980		2.88	188.69	63.50	125.19	54.25
1000		16.22	191.29	63.00	128.29	55.59
1010		17.19	191.48	62.00	129.48	56.11
1015		7.94	192.31	61.60	130.71	56.64
1030		2.62	191.45	64.20	127.25	55.14
1040		9.22	191.44	64.00	127.44	55.23
1050		8.91	191.44	63.00	128.44	55.66
1060		11.08	191.48	62.90	128.58	55.72
1070		11.66	191.72	62.40	129.32	56.04
1080		10.64	192.38	62.00	130.38	56.50
1090		7.94	192.33	62.00	130.33	56.48
1100		5.08	191.37	63.00	128.37	55.63
1110		7.34	191.45	62.60	128.85	55.83
1150		9.56	191.42	64.20	127.22	55.13
1155		7.15	191.42	63.80	127.62	55.30
1160		9.25	191.43	63.50	127.93	55.44
1170		5.08	191.41	64.30	127.11	55.08
1175		2.70	191.41	64.00	127.41	55.21
1180		2.70	191.42	63.80	127.62	55.30
1185		4.77	191.43	63.60	127.83	55.39
1200		9.30	191.47	63.00	128.47	55.67
1205		7.13	191.44	63.60	127.84	55.40
1210		9.90	191.52	62.80	128.72	55.78
1220		7.73	191.45	63.80	127.65	55.31
1225		5.03	191.44	63.50	127.94	55.44
1240		5.37	191.41	64.30	127.11	55.08
1245		5.37	191.41	64.00	127.41	55.21
1250		5.37	191.42	63.80	127.62	55.30
1255		5.37	191.43	63.60	127.83	55.39
1260		4.59	191.44	63.50	127.94	55.44
1265		6.34	191.44	63.40	128.04	55.48
1270		6.34	191.45	63.30	128.15	55.53
1275		20.51	191.71	63.50	128.21	55.56
1300		12.18	190.83	62.30	128.53	55.70



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		16.61	191.22	61.50	129.72	56.21
1310		0.00	190.79	62.00	128.79	55.81
1315		9.96	190.78	63.00	127.78	55.37
1320		14.38	190.81	61.20	129.61	56.16
1325		4.98	190.50	61.10	129.40	56.07
1330		8.36	190.52	61.00	129.52	56.12
1335		16.45	190.78	60.90	129.88	56.28
1350		9.54	191.23	60.80	130.43	56.52
1360		89.08	189.74	60.80	128.94	55.87
1365		89.08	189.00	61.20	127.80	55.38
1370		89.08	189.37	60.60	128.77	55.80
1400		9.69	190.50	60.20	130.30	56.46
1403		7.47	190.41	59.80	130.61	56.60
1405		10.09	190.51	60.70	129.81	56.25
1420		5.24	190.63	59.80	130.83	56.69
1425		8.38	190.68	59.50	131.18	56.85
1430		5.50	190.80	59.20	131.60	57.03
1435		15.20	190.75	60.00	130.75	56.66
1440		7.34	190.90	60.00	130.90	56.72
1445		4.98	190.65	59.40	131.25	56.88
1450		3.67	190.80	59.10	131.70	57.07
1455		5.24	190.52	59.00	131.52	56.99
1460		7.60	190.59	59.00	131.59	57.02
1465		3.67	190.71	58.70	132.01	57.21
1470		4.98	190.54	58.50	132.04	57.22
1475		0.00	190.71	58.00	132.71	57.51
1540		18.73	190.91	58.80	132.11	57.25
1600		4.79	189.82	59.20	130.62	56.60
1605		9.51	189.88	58.30	131.58	57.02
1610		5.00	189.74	57.20	132.54	57.43
1615		4.72	189.83	57.40	132.43	57.38
1620		0.00	189.82	56.80	133.02	57.64
1625		12.05	189.90	56.80	133.10	57.68
1630		12.05	190.10	57.50	132.60	57.46
1635		8.46	190.41	58.20	132.21	57.29
1640		3.93	189.87	56.50	133.37	57.79
1645		7.34	189.96	56.80	133.16	57.70
1647		3.77	190.18	56.80	133.38	57.80
1650		7.34	190.25	57.20	133.05	57.66
1653		3.69	190.51	57.50	133.01	57.64
1655		3.67	190.55	57.80	132.75	57.53
1700		16.45	189.30	56.00	133.30	57.77
1702		32.51	189.44	56.30	133.14	57.70



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		7.89	189.78	56.00	133.78	57.97
1750		19.39	188.68	56.00	132.68	57.50
1755		19.60	188.77	54.70	134.07	58.10
1770		6.60	188.54	55.40	133.14	57.69
1775		11.53	188.54	54.30	134.24	58.17
1780		9.51	188.58	54.00	134.58	58.32
1790		2.10	188.53	55.00	133.53	57.86
1800		25.15	188.46	53.80	134.66	58.35
1805		24.68	188.55	53.40	135.15	58.56
1880		0.71	188.12	55.00	133.12	57.69
1900		15.20	187.90	53.60	134.30	58.20
1905		7.15	187.77	53.00	134.77	58.40
1910		8.25	187.68	52.50	135.18	58.58
1915		6.29	187.64	51.80	135.84	58.86
1920		11.61	187.58	51.50	136.08	58.97
1925		6.16	187.58	51.50	136.08	58.97
1930		5.45	187.57	51.50	136.07	58.97
1935		12.39	188.26	53.00	135.26	58.61
1940		20.04	188.03	52.80	135.23	58.60
1945		6.03	187.91	52.80	135.11	58.55
1950		12.97	187.77	52.50	135.27	58.62
1955		16.11	187.68	52.00	135.68	58.79
1960		13.49	187.63	51.50	136.13	58.99
1965		19.47	187.58	51.30	136.28	59.05
1970		15.96	187.57	51.20	136.37	59.09
1975		9.01	188.26	52.70	135.56	58.74
1980		14.72	188.03	52.40	135.63	58.77
1982		2.31	187.81	52.20	135.61	58.76
1985		5.50	187.81	52.20	135.61	58.76
1990		10.72	187.76	52.00	135.76	58.83
1995		13.23	187.67	51.50	136.17	59.01
2000		6.86	187.63	51.00	136.63	59.21
2005		9.51	187.55	51.00	136.55	59.17
2010		9.51	187.53	51.00	136.53	59.16
2015		9.51	187.52	51.00	136.52	59.16
2020		9.51	187.50	51.00	136.50	59.15
2200		0.00	194.53	67.50	127.03	55.05
2210		0.00	194.53	67.50	127.03	55.05
2220		0.00	194.53	67.50	127.03	55.05
2230		0.00	194.53	67.50	127.03	55.05
2300		5.11	194.51	67.50	127.01	55.04
2310		3.54	194.51	67.50	127.01	55.04
2320		1.57	194.51	67.50	127.01	55.04



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		5.11	194.51	67.50	127.01	55.04
2340		3.54	194.50	67.35	127.15	55.10
2350		1.57	194.51	67.50	127.01	55.04
2360		7.73	194.50	67.50	127.00	55.03
2370		3.54	194.50	67.50	127.00	55.03
2380		1.57	194.50	67.00	127.50	55.25
2400		0.00	196.05	65.00	131.05	56.79
2410		0.00	196.20	65.00	131.20	56.85
2420		0.00	196.33	65.50	130.83	56.69
2430		7.86	196.33	65.50	130.83	56.69
2440		7.86	196.45	66.00	130.45	56.53
2450		7.86	196.44	66.00	130.44	56.52
2460		7.86	196.44	66.00	130.44	56.52
2470		7.86	196.44	66.00	130.44	56.52
3000		8.72	190.08	62.70	127.38	55.20
3005		5.97	189.92	63.00	126.92	55.00
3010		10.09	189.65	63.80	125.85	54.53
3015		6.21	189.41	64.10	125.31	54.30
3020		8.83	189.26	65.10	124.16	53.80
3025		2.62	189.06	66.00	123.06	53.33
3030		9.46	189.06	66.20	122.86	53.24
3035		0.00	189.06	66.60	122.46	53.07
3040		0.00	189.06	66.80	122.26	52.98
3045		4.45	189.04	67.00	122.04	52.88
3050		0.00	189.03	67.30	121.73	52.75
3055	23RD & OCO	9.43	189.02	67.50	121.52	52.66
3060		7.05	189.02	68.00	121.02	52.44
3065		3.93	189.03	66.60	122.43	53.05
3070		10.48	189.00	66.50	122.50	53.08
3075		5.24	188.98	67.00	121.98	52.86
3080		0.00	188.98	67.00	121.98	52.86
3100		0.00	190.45	63.00	127.45	55.23
3105		0.42	190.45	63.00	127.45	55.23
3110		2.10	190.46	63.50	126.96	55.02
3115		3.14	190.47	64.00	126.47	54.80
3130		13.76	190.04	64.50	125.54	54.40
3140		7.60	189.84	65.10	124.74	54.06
3145		7.60	189.75	65.30	124.45	53.93
3147		7.86	189.75	65.50	124.25	53.84
3150		13.76	189.81	65.50	124.31	53.87
3200		5.45	189.49	66.00	123.49	53.51
3205		13.94	189.42	66.40	123.02	53.31
3210		0.00	189.42	66.50	122.92	53.26





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		11.40	189.31	67.00	122.31	53.00
3220		3.12	189.31	67.20	122.11	52.92
3225		9.90	189.55	65.90	123.65	53.58
3230		15.14	189.43	66.30	123.13	53.36
3235		11.40	189.31	66.80	122.51	53.09
3240		3.12	189.31	67.00	122.31	53.00
3245		8.36	189.51	65.00	124.51	53.95
3247		5.19	189.46	65.30	124.16	53.80
3250		14.93	189.42	65.90	123.52	53.52
3252		13.47	189.40	66.10	123.30	53.43
3255		12.42	189.25	66.60	122.65	53.15
3257		11.40	189.30	66.70	122.60	53.13
3259		3.12	189.30	66.90	122.40	53.04
3260		8.59	189.83	63.50	126.33	54.74
3262		2.31	189.83	63.40	126.43	54.79
3265		8.59	189.84	64.20	125.64	54.44
3267		2.31	189.84	64.10	125.74	54.49
3270		8.38	190.02	64.40	125.62	54.43
3275		8.59	189.87	64.60	125.27	54.28
3277		2.31	189.87	64.50	125.37	54.33
3280		6.29	189.67	65.50	124.17	53.81
3285		6.29	189.72	65.10	124.62	54.00
3290		22.11	189.70	64.80	124.90	54.12
3295		17.03	189.65	64.30	125.35	54.32
3300		10.74	189.26	65.90	123.36	53.46
3305		7.00	189.26	66.20	123.06	53.32
3310		3.41	189.26	66.30	122.96	53.28
3315		7.00	189.25	66.30	122.95	53.28
3320		3.41	189.25	66.40	122.85	53.24
3325		7.00	189.25	66.40	122.85	53.24
3330		3.41	189.25	66.50	122.75	53.19
3400		4.59	189.27	64.90	124.37	53.89
3405		2.62	189.27	65.00	124.27	53.85
3410		6.55	189.28	64.40	124.88	54.12
3415		2.62	189.28	64.50	124.78	54.07
3420		4.59	189.21	63.90	125.31	54.30
3425		2.62	189.21	64.00	125.21	54.26
3430		4.59	189.15	63.70	125.45	54.36
3435		2.62	189.15	63.80	125.35	54.32
3440		7.86	189.26	63.10	126.16	54.67
3450		13.65	189.45	62.20	127.25	55.14
3460		7.41	189.77	61.00	128.77	55.80
3470		7.41	189.82	61.30	128.52	55.69



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		13.65	189.54	62.50	127.04	55.05
3490		7.55	189.45	63.50	125.95	54.58
3500		8.86	189.43	64.00	125.43	54.35
3510		8.59	189.60	63.00	126.60	54.86
3520		11.48	189.95	62.00	127.95	55.45
3530		10.74	189.95	62.30	127.65	55.32
3540		14.75	189.62	63.30	126.32	54.74
3550		7.86	189.47	64.20	125.27	54.28
3600		8.20	189.42	60.20	129.22	56.00
3605		10.48	189.29	61.10	128.19	55.55
3610		8.20	189.28	59.90	129.38	56.07
3615		8.20	189.21	60.60	128.61	55.73
3620		8.20	189.17	59.50	129.67	56.19
3625		8.20	189.12	60.10	129.02	55.91
3630		8.20	188.77	58.70	130.07	56.36
3635		20.02	188.73	59.30	129.43	56.08
3640		0.00	188.72	58.30	130.42	56.52
3643		0.00	188.70	58.90	129.80	56.24
3645		2.99	188.68	59.00	129.68	56.20
3650		3.38	188.55	56.30	132.25	57.31
3660		0.00	188.70	58.30	130.40	56.50
3665		18.81	188.53	58.50	130.03	56.35
3670		0.00	188.70	58.30	130.40	56.50
3675		0.00	188.49	58.30	130.19	56.41
3680		0.00	188.70	58.00	130.70	56.63
3685		5.79	188.59	60.00	128.59	55.72
3690		0.00	188.70	57.80	130.90	56.72
3695		14.86	188.52	59.70	128.82	55.82
3697		14.70	188.52	59.20	129.32	56.04
3698		0.00	188.48	59.20	129.28	56.02
4000		11.69	189.01	67.20	121.81	52.78
4010		10.03	189.00	67.00	122.00	52.87
4020		10.03	189.00	67.00	122.00	52.87
4030		12.05	189.00	67.30	121.70	52.74
4040		6.92	189.00	67.30	121.70	52.74
4050		5.00	189.00	67.30	121.70	52.74
4060		7.78	189.00	67.40	121.60	52.69
4070		14.44	189.00	67.20	121.80	52.78
4080		5.24	189.01	67.20	121.81	52.78
4100		5.24	188.95	66.50	122.45	53.06
4105		12.24	188.96	66.10	122.86	53.24
4110		7.00	188.98	66.00	122.98	53.29
4115		5.24	188.93	66.00	122.93	53.27



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-1

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		12.24	188.93	65.80	123.13	53.36
4125		7.00	188.95	65.00	123.95	53.71
4130		2.62	188.89	65.80	123.09	53.34
4135		9.69	188.90	65.50	123.40	53.47
4140		6.29	188.92	65.30	123.62	53.57
4145		6.29	188.95	65.00	123.95	53.71
4150		3.67	188.92	65.00	123.92	53.70
4155		3.67	188.95	64.60	124.35	53.89
4200		5.84	188.85	63.80	125.05	54.19
4205		5.84	188.79	63.20	125.59	54.42
4210		5.84	188.76	61.90	126.86	54.97
4220		7.47	188.89	64.00	124.89	54.12
4225		19.39	188.85	64.30	124.55	53.97
4230		5.84	188.82	63.50	125.32	54.31
4235		12.47	188.80	63.80	125.00	54.17
4240		5.84	188.77	63.00	125.77	54.50
4245		12.47	188.76	63.50	125.26	54.28
4250		5.84	188.74	62.70	126.04	54.62
4255		12.44	188.74	63.00	125.74	54.49
4260		7.47	188.83	64.50	124.33	53.88
4265		10.35	188.83	64.80	124.03	53.75
4266		0.00	188.85	65.00	123.85	53.67
4267		2.88	188.83	65.00	123.83	53.66
4270		6.63	188.80	64.00	124.80	54.08
4275		9.51	188.79	64.30	124.49	53.95
4278		2.88	188.79	64.60	124.19	53.82
4280		6.63	188.76	63.60	125.16	54.24
4285		6.63	188.76	63.60	125.16	54.24
4290		6.60	188.73	62.50	126.23	54.70
4295		6.60	188.72	62.50	126.22	54.70
4300		6.94	188.61	62.00	126.61	54.86
4310		6.94	188.54	61.30	127.24	55.14
4320		6.94	188.49	60.50	127.99	55.46
4330		6.94	188.45	60.30	128.15	55.53
4340		9.82	188.61	62.30	126.31	54.73
4350		9.82	188.54	61.60	126.94	55.01
4360		6.94	188.49	61.20	127.29	55.16
4370		6.94	188.45	60.60	127.85	55.40
4380		2.88	188.60	62.50	126.10	54.65
4390		2.88	188.54	61.90	126.64	54.88
4400		4.85	188.43	60.00	128.43	55.65
4410		9.82	188.44	60.00	128.44	55.66
4420		4.98	188.47	60.00	128.47	55.67





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		3.93	188.47	60.00	128.47	55.67
4500		16.58	188.43	57.00	131.43	56.95
4510		28.51	188.43	58.00	130.43	56.52
4520		51.93	188.43	59.00	129.43	56.08
4530		7.47	188.42	59.40	129.02	55.91
4540		4.09	188.42	60.30	128.12	55.52
4550		8.93	188.42	60.50	127.92	55.43
4560		4.09	188.42	60.80	127.62	55.30
4570		2.31	188.42	60.00	128.42	55.65
4580	MAIN BTW L	2.31	188.42	60.00	128.42	55.65
4590		2.31	188.42	61.40	127.02	55.04
4600		10.74	188.21	56.30	131.91	57.16
4610		0.00	188.23	57.00	131.23	56.87
4620		0.00	188.25	58.20	130.05	56.35
4700		2.20	187.91	55.20	132.71	57.51
4710		21.22	187.91	55.80	132.11	57.25
4720		18.92	187.95	56.30	131.65	57.05
4730		0.00	187.96	56.80	131.16	56.84
4740		19.68	188.01	57.00	131.01	56.77
4750		5.24	188.03	57.00	131.03	56.78
4800		46.92	187.69	53.20	134.49	58.28
4810		9.82	187.78	54.20	133.58	57.89
4820		0.00	187.86	54.60	133.26	57.75
4830		0.00	187.94	55.20	132.74	57.52
4840		0.00	187.97	56.50	131.47	56.97
4850		0.21	187.78	55.30	132.48	57.41
4870		55.28	187.51	55.00	132.51	57.42
4880		0.00	187.95	56.00	131.95	57.18
4900		38.54	187.64	51.80	135.84	58.87
4910		5.82	187.64	51.70	135.94	58.91
4920		0.00	187.63	51.60	136.03	58.95
4930		0.84	187.61	51.50	136.11	58.98
4940		46.37	187.61	51.30	136.31	59.07
4947		12.31	187.61	51.60	136.01	58.94
4950		1.31	187.64	51.80	135.84	58.86
4955		12.31	187.64	51.90	135.74	58.82
4960		1.31	187.64	52.70	134.94	58.47
4965		3.93	187.64	52.70	134.94	58.47
4970		0.00	187.64	53.70	133.94	58.04
4975		15.46	187.65	54.00	133.65	57.91
4977		5.76	187.65	52.60	135.05	58.52
4980		5.76	187.66	52.30	135.36	58.66
4985		5.76	187.68	52.70	134.98	58.49



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	26.30	187.71	53.00	134.71	58.37
4995		0.00	187.66	52.10	135.56	58.74
5000		12.60	188.77	61.70	127.07	55.06
5010		0.00	188.64	61.00	127.64	55.31
5020		0.00	188.53	60.30	128.23	55.56
5030		6.68	188.42	59.80	128.62	55.74
5040		0.00	188.27	58.80	129.47	56.10
5050		0.00	188.11	58.20	129.91	56.29
5060		0.00	188.01	57.40	130.61	56.60
5070		0.00	187.87	55.70	132.17	57.27
5080		0.00	187.77	54.50	133.27	57.75
5090		0.00	187.74	52.20	135.54	58.73
5100		0.00	187.64	53.50	134.14	58.13
5110		6.39	187.64	53.50	134.14	58.13
5120		8.91	187.64	54.00	133.64	57.91
5130		8.91	187.65	55.90	131.75	57.09
5140		14.15	187.65	55.00	132.65	57.48
5150		5.76	187.68	54.50	133.18	57.71
5160		7.91	187.65	54.10	133.55	57.87
5170		5.76	187.66	53.00	134.66	58.35
5180		6.55	187.64	53.00	134.64	58.34
5190		5.24	187.61	51.70	135.91	58.90
5200		4.27	187.66	52.10	135.56	58.74
5205		4.27	187.66	51.80	135.86	58.87
5210		8.57	187.66	51.60	136.06	58.96
5215		4.27	187.66	51.40	136.26	59.05
5220		4.27	187.67	51.10	136.57	59.18
5230		4.53	187.68	51.30	136.38	59.10
5235		52.79	187.69	51.90	135.79	58.84
5240		3.22	187.66	52.30	135.36	58.65
5250		6.55	187.66	51.90	135.76	58.83
5255		6.42	187.66	51.80	135.86	58.87
5260		12.84	187.66	51.40	136.26	59.05
5265		6.42	187.67	51.00	136.67	59.22
5270		1.21	187.64	51.30	136.34	59.08
5277		0.00	187.64	51.50	136.14	58.99
5279		14.07	187.61	51.00	136.61	59.20
5280		45.80	187.61	51.00	136.61	59.20
5290		0.00	187.63	50.10	137.53	59.60
5292		0.00	187.67	50.80	136.87	59.31
5295		3.12	187.65	50.10	137.55	59.60
5297		0.00	187.67	52.80	134.87	58.45
5500		4.09	188.40	60.00	128.40	55.64



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-1

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		4.09	188.41	60.30	128.11	55.51
5520		4.09	188.41	60.60	127.81	55.38
5530		4.09	188.37	58.70	129.67	56.19
5540		4.09	188.40	59.00	129.40	56.07
5550		4.09	188.40	59.00	129.40	56.07
6000		0.00	187.72	52.20	135.52	58.72
7000		7.86	194.31	62.00	132.31	57.33
7005		7.86	194.19	61.40	132.79	57.54
7010		22.19	194.09	60.80	133.29	57.76
7015		15.72	193.93	60.30	133.63	57.90
7020		11.71	193.83	59.50	134.33	58.21
7025		4.98	193.76	62.30	131.46	56.97
7030		11.74	193.73	62.00	131.73	57.08
7035		19.75	193.47	60.50	132.97	57.62
7040	AURORA BTW	0.84	193.32	59.00	134.32	58.21
7045		0.00	193.16	58.50	134.66	58.35
7050		9.27	193.09	57.80	135.29	58.62
7055		9.27	193.03	57.50	135.53	58.73
7060		0.00	192.89	56.00	136.89	59.32
7070		0.00	192.81	57.00	135.81	58.85
7080		1.70	192.64	57.50	135.14	58.56
7100		8.38	194.24	63.00	131.24	56.87
7110		6.29	193.98	61.00	132.98	57.62
7120		9.96	193.93	60.50	133.43	57.82
7130		10.48	193.92	59.50	134.42	58.25
7140		6.29	193.96	62.00	131.96	57.18
7150		9.96	193.93	60.80	133.13	57.69
7160		10.48	193.94	59.10	134.84	58.43
7200		6.65	194.03	62.50	131.53	57.00
7210		6.21	194.13	62.50	131.63	57.04
7300		1.76	193.61	62.00	131.61	57.03
7310		5.24	194.03	62.00	132.03	57.21
7320		5.24	194.01	61.60	132.41	57.38
7330		4.38	193.80	62.00	131.80	57.11
7340		4.38	193.47	61.00	132.47	57.40
7350		5.24	193.50	60.20	133.30	57.77
7360		6.60	193.49	59.50	133.99	58.06
7370		5.24	193.15	60.40	132.75	57.53
7380		6.60	193.14	59.50	133.64	57.91
7390		1.60	192.71	60.00	132.71	57.51
7400		10.22	192.98	60.90	132.08	57.24
7405		10.22	192.87	62.00	130.87	56.71
7410		18.60	192.80	61.00	131.80	57.11





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		11.11	192.74	59.50	133.24	57.74
7420		12.84	192.71	60.20	132.51	57.42
7425		5.66	192.69	60.60	132.09	57.24
7430		10.22	192.56	60.70	131.86	57.14
7435		10.22	192.51	61.50	131.01	56.77
7440		16.93	192.50	61.00	131.50	56.98
7445		12.58	192.49	59.70	132.79	57.54
7450		7.70	192.69	59.50	133.19	57.71
7455		10.22	192.25	60.50	131.75	57.09
7460		10.22	192.25	61.20	131.05	56.79
7465		16.61	192.25	60.50	131.75	57.09
7470		12.52	192.26	59.50	132.76	57.53
7475		0.31	192.52	58.00	134.52	58.29
7480		11.66	191.99	60.30	131.69	57.06
7485		10.22	192.00	61.00	131.00	56.77
7490		21.09	192.06	60.00	132.06	57.22
7495		17.42	192.16	59.30	132.86	57.57
7500		9.17	192.52	57.90	134.62	58.34
7505		3.67	191.83	60.00	131.83	57.13
7510		7.34	191.82	60.00	131.82	57.12
7515		7.34	191.95	59.40	132.55	57.44
7520		7.34	192.05	58.40	133.65	57.91
7525		5.08	192.41	57.50	134.91	58.46
7530		3.67	191.62	59.00	132.62	57.47
7535		7.34	191.63	58.50	133.13	57.69
7540		7.34	191.65	57.80	133.85	58.00
7545		3.67	191.67	57.30	134.37	58.23
7550		7.34	191.57	59.20	132.37	57.36
7555		7.34	191.44	58.80	132.64	57.48
7560		7.34	191.14	58.30	132.84	57.56
7565		14.67	191.12	57.70	133.42	57.81
7570		14.67	191.05	57.10	133.95	58.04
7573		7.34	191.45	56.40	135.05	58.52
7575		7.34	191.02	56.40	134.62	58.33
7577		7.34	191.09	58.00	133.09	57.67
7580		0.00	191.46	58.20	133.26	57.75
7585		7.34	190.83	57.50	133.33	57.78
7590		13.89	190.83	56.90	133.93	58.04
7595		13.89	190.49	56.30	134.19	58.15
7600		6.94	190.13	55.60	134.53	58.30
7605		5.58	191.46	57.30	134.16	58.14
7610		6.55	190.40	56.60	133.80	57.98
7615		13.10	190.24	56.20	134.04	58.09





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		13.28	190.13	55.70	134.43	58.25
7625		6.73	190.02	55.10	134.92	58.46
7700		13.10	190.07	55.90	134.17	58.14
7705		12.50	189.85	55.00	134.85	58.44
7710		12.37	189.74	54.00	135.74	58.82
7715		6.55	189.74	53.80	135.94	58.91
7720		18.94	189.89	55.00	134.89	58.45
7725		13.96	189.66	54.10	135.56	58.74
7730		11.08	189.55	53.70	135.85	58.87
7735		5.71	189.53	53.50	136.03	58.94
7740		10.93	189.71	54.40	135.31	58.64
7745		10.64	189.61	53.70	135.91	58.89
7750		14.57	189.34	53.60	135.74	58.82
7755		11.40	189.19	53.50	135.69	58.80
7760		17.76	189.32	53.90	135.42	58.68
7765		19.02	189.14	53.60	135.54	58.74
7770		18.73	189.10	53.50	135.60	58.76
7775		8.25	189.10	53.20	135.90	58.89
7780		17.61	188.98	53.60	135.38	58.67
7785		20.28	188.86	53.50	135.36	58.66
7790		19.91	188.84	53.40	135.44	58.69
7795		7.07	188.75	53.00	135.75	58.82
7800		3.07	188.74	53.40	135.34	58.65
7805		1.05	188.86	53.40	135.46	58.70
7810		1.05	188.78	53.30	135.48	58.71
7815		1.31	188.76	53.30	135.46	58.70
7820		3.41	188.70	53.10	135.60	58.76
7825		2.10	188.60	50.80	137.80	59.71
7830		5.24	188.47	52.70	135.77	58.84
7835		1.70	188.50	52.80	135.70	58.80
7840		3.93	188.53	52.60	135.93	58.90
7845		3.01	188.54	52.20	136.34	59.08
7850		4.82	188.22	52.10	136.12	58.98
7855		2.72	188.20	52.20	136.00	58.94
7860		2.62	188.20	51.90	136.30	59.06
7865		2.62	188.35	52.00	136.35	59.09
7870		4.40	188.35	51.80	136.55	59.17
7875		49.78	187.92	52.00	135.92	58.90
7880		0.00	188.00	52.00	136.00	58.93
7885		49.78	187.83	52.00	135.83	58.86
7890		49.78	187.35	52.00	135.35	58.65
7895		1.31	187.57	52.00	135.57	58.75
7900		12.47	188.64	53.30	135.34	58.65



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		10.90	188.63	53.30	135.33	58.64
7910		10.40	188.62	53.20	135.42	58.68
7915		2.12	188.60	52.80	135.80	58.84
7917		0.00	188.60	52.50	136.10	58.97
7920		5.37	188.57	52.90	135.67	58.79
7925		5.24	188.56	53.00	135.56	58.74
7930		5.24	188.56	52.80	135.76	58.83
7935		3.93	188.56	52.40	136.16	59.00
7937		0.29	188.54	52.10	136.44	59.12
7940		11.27	188.34	52.50	135.84	58.86
7945		11.27	188.40	52.40	136.00	58.93
7950		8.65	188.48	52.30	136.18	59.01
7955		4.72	188.50	52.00	136.50	59.15
8000		7.39	187.61	51.70	135.91	58.89
8005		8.59	187.59	51.60	135.99	58.93
8010		7.07	187.59	51.40	136.19	59.01
8015		2.17	187.58	51.30	136.28	59.06
8020		7.39	187.61	51.50	136.11	58.98
8025		8.93	187.59	51.40	136.19	59.02
8030		11.40	187.59	51.30	136.29	59.06
8035		6.16	187.58	51.90	135.68	58.80
8040		13.68	187.62	51.20	136.42	59.12
8045	6TH & EUCL	13.68	187.61	51.20	136.41	59.11
8050		11.53	187.61	50.80	136.81	59.29
8055		4.72	187.62	50.00	137.62	59.64
8060		11.00	187.59	50.90	136.69	59.23
8065		7.86	187.42	50.80	136.62	59.20
8070		10.48	187.52	50.40	137.12	59.42
8075		8.80	187.58	50.60	136.98	59.36
8080		4.53	187.55	50.50	137.05	59.39
8085		4.53	187.54	50.50	137.04	59.38
8090		58.06	187.31	49.50	137.81	59.72
8095		9.69	187.31	48.40	138.91	60.19
8100		0.00	187.38	49.50	137.88	59.75
8105		6.34	187.33	49.00	138.33	59.94
8110		3.96	187.32	48.70	138.62	60.07
8115		3.96	187.32	48.40	138.92	60.20
8120		6.34	187.32	48.00	139.32	60.37
8125		1.31	187.32	48.00	139.32	60.37
8130		1.31	187.32	47.70	139.62	60.50
8135		2.83	187.31	48.80	138.51	60.02
8140		0.55	187.31	49.50	137.81	59.72
8145		16.82	187.31	48.70	138.61	60.07



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.52	187.66	49.50	138.16	59.87
8205		0.50	187.66	49.00	138.66	60.09
8210		0.00	187.66	48.50	139.16	60.30
8215		7.55	187.73	48.70	139.03	60.25
8220		12.05	187.87	47.90	139.97	60.65
8225		10.43	188.07	47.70	140.37	60.83
8230		12.05	187.75	48.00	139.75	60.56
8235		12.05	187.86	47.50	140.36	60.82
8240		12.05	188.04	47.20	140.84	61.03
8250		6.03	187.75	47.50	140.25	60.77
8255		6.03	187.79	47.20	140.59	60.92
8260		6.03	187.79	47.20	140.59	60.92
8265		9.96	188.03	46.80	141.23	61.20
8270		3.14	187.79	47.20	140.59	60.92
8275		3.14	187.79	47.00	140.79	61.01
8280		3.14	187.79	46.80	140.99	61.09
8285		4.85	187.79	46.80	140.99	61.09
8290		4.85	187.79	46.80	140.99	61.09
8295		0.86	187.79	47.00	140.79	61.01
8300		2.28	188.28	49.50	138.78	60.14
8310		0.00	188.20	48.40	139.80	60.58
8320		0.47	188.11	47.80	140.31	60.80
8330		0.00	188.23	48.10	140.13	60.72
8340		0.00	188.26	48.00	140.26	60.78
8350		2.62	188.26	48.00	140.26	60.78
8360		0.00	188.11	47.60	140.51	60.89
8370		0.00	188.11	47.50	140.61	60.93
8380		3.93	188.36	48.60	139.76	60.56
8400		4.35	189.12	53.30	135.82	58.86
8410		0.31	189.08	53.00	136.08	58.97
8420		0.00	189.07	53.00	136.07	58.96
8430		0.31	189.08	53.20	135.88	58.88
8440		0.58	189.08	53.00	136.08	58.97
8450		0.52	189.07	52.80	136.27	59.05
8460		0.68	189.08	52.70	136.38	59.10
8470		0.68	189.08	52.50	136.58	59.18
8500		0.65	188.84	53.10	135.74	58.82
8510		0.94	188.76	52.70	136.06	58.96
8515		0.00	188.76	52.70	136.06	58.96
8520		0.55	188.70	52.00	136.70	59.24
8525		4.03	188.70	52.40	136.30	59.06
8530		0.13	188.67	52.00	136.67	59.22
8540		1.81	188.64	51.80	136.84	59.30





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		13.55	188.59	51.00	137.59	59.62
8560		13.39	188.59	51.80	136.79	59.27
8600		3.90	188.69	53.00	135.69	58.80
8610		12.60	188.66	52.20	136.46	59.13
8620		4.27	188.66	52.00	136.66	59.22
8630		13.76	188.61	51.70	136.91	59.33
8640		0.92	188.59	51.70	136.89	59.32
8650		5.40	188.58	51.40	137.18	59.45
8660		0.63	188.58	51.30	137.28	59.49
8670		2.36	188.57	51.10	137.47	59.57
8680		3.93	188.59	50.90	137.69	59.67
8690		0.00	188.52	49.50	139.02	60.24
8700		4.40	189.19	53.50	135.69	58.80
8710		6.31	189.23	53.70	135.53	58.73
8720		2.78	189.27	53.50	135.77	58.83
8725		5.27	189.40	54.00	135.40	58.67
8730		3.22	189.40	53.60	135.80	58.85
8735		6.47	189.53	53.80	135.73	58.82
8740		4.59	189.70	54.80	134.90	58.46
8745		4.59	189.69	54.00	135.69	58.80
8750		4.53	189.79	54.00	135.79	58.84
8755		117.90	188.51	55.20	133.31	57.77
8760		5.76	191.10	55.60	135.50	58.72
8765		1.68	191.10	54.70	136.40	59.11
8770		1.31	191.10	57.00	134.10	58.11
8775		3.93	192.65	57.00	135.65	58.78
8800		0.52	188.83	53.50	135.33	58.64
8810		6.18	188.74	53.00	135.74	58.82
8820		7.34	188.76	53.20	135.56	58.74
8830		2.44	188.95	53.20	135.75	58.83
8840		0.84	189.81	53.70	136.11	58.98
8845		0.86	189.81	53.70	136.11	58.98
8850		1.10	191.30	54.30	137.00	59.37
8900		8.33	188.62	52.10	136.52	59.16
8910		15.09	188.60	52.50	136.10	58.98
8920		6.76	188.59	52.80	135.79	58.84
8930		4.19	188.57	53.10	135.47	58.70
8940		0.29	188.56	53.40	135.16	58.57
8950		0.26	188.55	53.70	134.85	58.44
8960		1.49	188.53	54.80	133.73	57.95
8970		1.05	192.80	55.20	137.60	59.63
8975		2.83	192.80	55.00	137.80	59.71
8980		34.48	192.84	55.60	137.24	59.47



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		2.31	188.50	48.80	139.70	60.54
9010		0.10	188.49	48.80	139.69	60.53
9020		0.00	188.48	48.80	139.68	60.53
9030		0.65	188.47	49.10	139.37	60.39
9040		0.00	188.46	49.30	139.16	60.30
9050		0.00	188.45	49.50	138.95	60.21
9060		5.37	188.45	49.70	138.75	60.13
9070		5.89	188.45	50.00	138.45	60.00
9080		5.89	188.45	50.90	137.55	59.61
9090		3.01	188.45	51.40	137.05	59.39
9100		6.58	188.46	51.50	136.96	59.35
9110		0.00	188.46	52.00	136.46	59.13
9115		2.62	188.46	52.50	135.96	58.92
9120		2.44	188.47	52.60	135.87	58.88
9130		2.44	188.48	53.40	135.08	58.54
9140		0.97	188.48	54.00	134.48	58.28
9150	ROSS & McC	5.24	188.49	54.00	134.49	58.28
9160		0.00	188.49	54.00	134.49	58.28
9170		0.00	188.50	54.00	134.50	58.28
9175		4.22	188.49	53.30	135.19	58.58
9180		0.00	188.51	54.20	134.31	58.20
9190		0.00	188.53	54.80	133.73	57.95
9200		4.64	193.04	56.20	136.84	59.30
9210		4.64	193.06	56.00	137.06	59.39
9220		4.03	193.09	57.00	136.09	58.97
9230		5.97	193.09	56.80	136.29	59.06
9240		2.20	193.08	56.50	136.58	59.18
9250		4.24	193.14	57.80	135.34	58.65
9260		6.18	193.13	57.50	135.63	58.77
9270		4.06	193.15	58.50	134.65	58.35
9280		5.42	193.14	58.30	134.84	58.43
9300		0.00	193.60	61.50	132.10	57.24
9310		0.00	193.53	61.00	132.53	57.43
9320		2.36	193.60	62.00	131.60	57.02
9330		12.47	193.46	61.50	131.96	57.18
9333		1.99	193.28	61.00	132.28	57.32
9337		2.91	193.22	61.00	132.22	57.30
9340		4.59	193.14	59.00	134.14	58.13
9345		2.99	193.15	59.00	134.15	58.13
9350		5.32	193.15	60.00	133.15	57.70
9355		4.24	193.15	59.60	133.55	57.87
9360		6.08	193.16	60.50	132.66	57.48
9365		1.18	193.15	59.40	133.75	57.96



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-1

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		3.85	193.17	60.50	132.67	57.49
9375		4.98	193.15	60.50	132.65	57.48
9380		4.48	193.16	60.80	132.36	57.36
9385		1.23	193.15	60.50	132.65	57.48
9390		5.21	193.16	60.60	132.56	57.44
9395		2.99	193.16	60.50	132.66	57.48
9400		9.59	195.74	65.00	130.74	56.65
9410		0.00	195.73	64.00	131.73	57.08
9415		1.31	195.73	65.00	130.73	56.65
9420		7.05	195.73	63.00	132.73	57.52
9425		1.31	195.73	65.00	130.73	56.65
9430		0.00	195.73	62.00	133.73	57.95
9440		18.86	195.72	62.00	133.72	57.95
9460		3.14	195.81	65.50	130.31	56.47
9470		2.44	195.87	65.50	130.37	56.50
9480		0.00	195.87	65.50	130.37	56.50
9490		5.66	195.72	62.00	133.72	57.95
9500		6.55	188.54	52.70	135.84	58.86
9505		2.36	188.49	52.20	136.29	59.06
9510		10.24	188.54	52.10	136.44	59.13
9513		0.00	188.54	51.80	136.74	59.26
9515		6.65	188.49	51.80	136.69	59.23
9520		11.61	188.51	51.50	137.01	59.37
9525		3.67	188.47	51.50	136.97	59.35
9530		11.19	188.50	51.20	137.30	59.50
9535		9.14	188.45	51.10	137.35	59.52
9540		10.43	188.48	50.80	137.68	59.66
9545		14.46	188.42	50.50	137.92	59.76
9550		0.00	188.50	51.00	137.50	59.58
9555		6.37	188.39	50.50	137.89	59.75
9560		12.73	188.40	50.00	138.40	59.97
9565		193.88	188.32	50.50	137.82	59.72
9570		0.00	188.37	50.30	138.07	59.83
9575		0.00	188.32	50.20	138.12	59.85
9580		0.18	188.54	49.50	139.04	60.25
9585		5.27	188.37	50.00	138.37	59.96
9590		3.46	188.40	49.80	138.60	60.06
9595		0.92	188.40	49.70	138.70	60.10
9600		0.00	188.49	52.00	136.49	59.14
9605		3.51	188.47	51.50	136.97	59.35
9610		2.20	188.46	51.40	137.06	59.39
9640		11.24	188.40	49.70	138.70	60.10
9650		5.69	188.40	49.40	139.00	60.23



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		3.14	188.39	49.20	139.19	60.32
9670		2.23	188.42	49.40	139.02	60.24
9673		0.00	188.43	49.50	138.93	60.20
9675		1.73	188.42	49.40	139.02	60.24
9680		11.37	188.43	49.70	138.73	60.11
9685		0.00	188.48	48.90	139.58	60.49
9687		0.00	188.48	48.80	139.68	60.53
9688		0.00	188.48	48.90	139.58	60.49
9700		1.13	188.49	53.60	134.89	58.45
9710		0.00	188.49	53.30	135.19	58.58
9720		3.80	188.49	53.30	135.19	58.58
9730		1.18	188.49	53.60	134.89	58.45
9740		0.00	188.48	52.30	136.18	59.01
9750		3.51	188.47	51.80	136.67	59.22
9760		9.56	188.46	51.50	136.96	59.35
9770		6.60	188.45	51.20	137.25	59.48
9780		14.54	188.42	50.60	137.82	59.72
9790		7.02	188.42	50.10	138.32	59.94
9800		1.99	193.24	60.50	132.74	57.52
9810		2.91	193.23	60.50	132.73	57.51
9820		5.24	193.19	60.00	133.19	57.72
9830		6.03	193.19	60.00	133.19	57.71
9840		5.24	193.18	60.00	133.18	57.71
9850		6.03	193.18	60.00	133.18	57.71
9860		5.24	193.16	58.50	134.66	58.35
9870		6.03	193.05	57.00	136.05	58.96
9880		6.03	193.04	56.50	136.54	59.17
9900		0.00	188.48	57.00	131.48	56.98
9910		0.00	188.48	58.00	130.48	56.54
9920		0.00	188.48	58.00	130.48	56.54
10000		9.82	190.26	56.40	133.86	58.01
10010	6TH & HAMI	13.10	190.08	56.00	134.08	58.10
10020		13.10	189.90	55.00	134.90	58.46
10030		11.69	189.75	55.60	134.15	58.13
10040		6.29	189.54	54.00	135.54	58.73
10050		8.49	189.41	53.70	135.71	58.81
10060		6.55	189.27	53.50	135.77	58.83
10070		0.00	189.12	53.40	135.72	58.81
10080		3.93	189.07	53.30	135.77	58.83
10090		0.24	188.92	53.30	135.62	58.77
10100		4.85	188.83	53.20	135.63	58.77
10110		4.95	188.76	53.00	135.76	58.83
10115		2.75	188.74	53.00	135.74	58.82





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		4.38	188.63	52.00	136.63	59.21
10130		4.61	188.61	51.60	137.01	59.37
10140		8.70	188.60	51.40	137.20	59.45
10150		0.00	188.58	51.00	137.58	59.62
10160		24.89	188.56	50.80	137.76	59.70
10170		5.16	188.55	50.50	138.05	59.82
10180		1.49	188.54	50.00	138.54	60.04
10185		18.37	188.54	50.00	138.54	60.03
10190		2.36	188.52	49.00	139.52	60.46
10195		0.00	188.52	49.20	139.32	60.37
10200	3 RD & COM	15.46	188.51	50.00	138.51	60.02
10210		19.73	188.51	51.50	137.01	59.37
14100		5.24	188.95	66.50	122.45	53.06
14110		7.86	188.95	66.70	122.25	52.97
14115		2.62	188.95	66.80	122.15	52.93
14120		5.24	188.92	66.30	122.62	53.14
14130		7.86	188.92	66.50	122.42	53.05
14135		2.62	188.92	66.70	122.22	52.96
14140		4.59	188.89	65.80	123.09	53.34
14150		3.28	188.89	66.00	122.89	53.25
14160		7.21	188.88	65.50	123.38	53.46
14170		7.21	188.87	65.70	123.17	53.37
20000		0.00	90.90	58.80	32.10	13.91
20010		0.00	90.81	58.80	32.01	13.87
20020		0.00	90.71	58.80	31.91	13.83
20100		0.00	90.57	62.50	28.07	12.16
20110		0.00	89.44	62.50	26.94	11.68
20120		0.00	204.23	62.50	141.73	61.42
20130		0.00	201.25	62.50	138.75	60.12
20140		0.00	199.85	62.50	137.35	59.52
20200		0.00	90.55	62.50	28.05	12.15
20210		0.00	89.41	62.50	26.91	11.66
20220		0.00	203.83	62.50	141.33	61.24
20230		0.00	200.82	62.50	138.32	59.94
20240		0.00	199.42	62.50	136.92	59.33
20300		0.00	90.55	62.50	28.05	12.15
20310		0.00	90.55	62.50	28.05	12.15
20320		0.00	199.12	62.50	136.62	59.20
20330		0.00	199.12	62.50	136.62	59.20
20340		0.00	199.12	62.50	136.62	59.20
20400		0.00	90.55	62.50	28.05	12.15
20410		0.00	90.55	62.50	28.05	12.15
20420		0.00	199.01	62.50	136.51	59.15



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
20430		0.00	199.01	62.50	136.51	59.15
20440		0.00	199.01	62.50	136.51	59.15
20500		0.00	198.44	67.20	131.24	56.87
21000		0.00	188.27	59.00	129.27	56.02
21010		0.00	188.27	59.00	129.27	56.02
21020		0.00	188.27	59.00	129.27	56.02
21040		0.00	100.00	60.00	40.00	17.33
21050		0.00	100.00	62.50	37.50	16.25
21100		0.00	100.00	63.30	36.70	15.90
21110		0.00	100.00	63.30	36.70	15.90
21120		0.00	188.27	63.30	124.97	54.15
21130		0.00	188.27	59.80	128.47	55.67
21200		0.00	100.00	63.30	36.70	15.90
21210		0.00	100.00	63.30	36.70	15.90
21220		0.00	188.27	63.30	124.97	54.15
21230		0.00	188.27	59.80	128.47	55.67
21300		0.00	100.00	63.30	36.70	15.90
21330		0.00	188.27	59.80	128.47	55.67
23000		0.45	187.71	50.00	137.71	59.67
23010		0.00	187.70	50.00	137.70	59.67
23020		0.00	187.70	47.00	140.70	60.97
23030		0.00	187.70	46.00	141.70	61.40
23040		1.31	187.70	45.00	142.70	61.84
23050		0.00	187.69	50.00	137.69	59.67
23060		0.00	187.68	49.00	138.68	60.10
23070		5.50	187.68	48.50	139.18	60.31
23100	BRADSHAW &	0.00	187.68	47.00	140.68	60.96
23110		44.54	187.65	48.00	139.65	60.51
23120		2.80	187.65	48.50	139.15	60.30
23200		0.00	187.67	49.00	138.67	60.09
23210		0.00	187.67	49.00	138.67	60.09
23220		0.00	187.68	47.50	140.18	60.74
23230		5.50	187.68	46.50	141.18	61.18
23240		6.55	187.68	46.00	141.68	61.39
23400		0.00	187.67	49.00	138.67	60.09
23410		0.00	187.68	49.00	138.68	60.09
23420		0.00	187.68	48.00	139.68	60.53
23500		0.00	187.68	47.00	140.68	60.96
23510		0.00	187.68	47.00	140.68	60.96
23520		0.00	187.68	47.00	140.68	60.96
23530		0.00	187.68	47.00	140.68	60.96
23540		0.00	187.68	46.50	141.18	61.18
23550		0.00	187.68	46.00	141.68	61.39



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-1

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
24000		269.86	183.76	76.00	107.76	46.70





# APPENDIX C

## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

### HYDRAULIC MODELING RESULTS

#### RUN 2 (Figure 5.3)

#### Existing Water Distribution System for Peak Hour Demand of Maximum Demand Month

<b>Total Demand</b>	13,500 gpm	19.4 mgd
<b>Number of Pumps Operating:</b>		
Water Treatment Plant Pump Station	3	
Remote Pump Station	1	
<b>Pump Operating Speed:</b>		
Water Treatment Plant Pump Station	100%	
Remote Pump Station	76%	
<b>Pump Discharge Rate:</b>		
Pump 1 Water Treatment Plant PS	4,080 gpm	
Pump 2 Water Treatment Plant PS	4,093 gpm	
Pump 3 Water Treatment Plant PS	4,104 gpm	
Pump 1 Remote Pump Station	1,224 gpm	
<b>Pump Discharge Head:</b>		
Pump 1 Water Treatment Plant PS	139.1 ft	60.3 psi
Pump 2 Water Treatment Plant PS	138.7 ft	60.1 psi
Pump 3 Water Treatment Plant PS	138.4 ft	60.0 psi
Pump 1 Remote Pump Station	91.1 ft	39.4 psi
<b>Hydraulic Grade Elevation:</b>		
at Water Treatment Plant PS (El. 67 ft)	213.6ft	63.4 psi
at Remote Pump Station (El. 60 ft)	190.0 ft	56.4 psi
at 3rd & Commercial (El. 50 ft)	188.6 ft	60.0 psi







# MAXIMUM DIMENSIONS

RUN-2

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	24001

Cybernet version 2.16c. SN: 1162130099-2000

## Extended Description:

### U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

### O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

### S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1272  
 NUMBER OF JUNCTION NODES .....(j) = 947  
 NUMBER OF PRIMARY LOOPS .....(l) = 324  
 NUMBER OF BOUNDARY NODES .....(f) = 2  
 NUMBER OF SUPPLY ZONES .....(z) = 1

### \*\*\*\*\* S I M U L A T I O N R E S U L T S \*\*\*\*\*

The results are obtained after 6 trials with an accuracy = 0.00290

### S I M U L A T I O N D E S C R I P T I O N

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 Run Description: PEAK HOUR OF MAX MONTH FLOW = 13500 GPM 19.4 MG  
 Drawing: EC-PEAK1









## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5	10	5	-9750.84	0.55	0.00	0.00	4.43	3.23
10	10	15	9255.61	3.09	0.00	0.00	4.20	2.93
15	2420	15	-9036.20	0.76	0.00	0.00	4.10	2.80
17	2420	20	8199.11	2.18	0.00	0.00	3.72	2.34
20	20	30	8199.11	2.62	0.00	0.00	3.72	2.34
30	30	40	6442.21	0.87	0.00	0.00	2.92	1.50
40	40	50	6442.21	0.44	0.00	0.00	2.92	1.50
50	50	60	5767.05	2.13	0.00	0.00	4.09	3.62
60	60	70	5267.50	1.64	0.00	0.00	3.74	3.06
80	70	80	4886.66	2.37	0.00	0.00	3.47	2.66
90	80	90	4620.86	1.00	0.00	0.00	3.28	2.40
100	90	100	3186.74	0.39	0.00	0.00	2.26	1.21
205	5	210	2525.21	0.29	0.00	0.00	1.15	0.26
210	210	220	2525.21	4.35	0.00	0.00	3.18	3.18
220	220	230	2525.21	4.20	0.00	0.00	3.18	3.18
240	230	240	2464.15	2.95	0.00	0.00	3.11	3.04
250	240	250	2464.15	3.22	0.00	0.00	3.11	3.04
260	250	260	2225.65	2.26	0.00	0.00	2.81	2.52
270	260	270	1793.94	0.60	0.00	0.00	2.26	1.69
280	270	280	1623.22	0.32	0.00	0.00	2.05	1.40
290	280	300	1646.97	0.80	0.00	0.00	2.08	1.44
305	300	305	1208.08	0.51	0.00	0.00	1.52	0.81
310	305	310	998.14	0.18	0.00	0.00	1.26	0.57
315	310	315	896.10	0.15	0.00	0.00	1.13	0.47
320	315	320	-1154.82	0.28	0.00	0.00	1.46	0.75
325	320	325	-1088.95	0.64	0.00	0.00	1.37	0.67
330	325	330	-1228.74	0.50	0.00	0.00	1.55	0.84
335	330	335	-1416.62	0.18	0.00	0.00	1.79	1.09
340	335	90	-1425.37	0.57	0.00	0.00	1.80	1.10
400	315	400	1863.08	0.61	0.00	0.00	2.35	1.81
405	400	405	727.00	0.49	0.00	0.00	2.06	2.28
410	405	410	600.90	0.45	0.00	0.00	1.70	1.61
415	410	415	505.58	0.24	0.00	0.00	1.43	1.17
420	415	420	564.96	0.53	0.00	0.00	1.60	1.43
425	420	425	504.00	0.39	0.00	0.00	1.43	1.16
430	425	430	492.70	0.22	0.00	0.00	1.40	1.11
435	430	435	467.24	0.19	0.00	0.00	1.33	1.01
440	435	440	428.71	0.31	0.00	0.00	1.22	0.86
445	440	445	342.50	0.12	0.00	0.00	0.97	0.57
450	445	450	324.10	0.08	0.00	0.00	0.92	0.51
455	450	455	483.05	0.41	0.00	0.00	1.37	1.07
457	455	457	57.72	0.01	0.00	0.00	0.16	0.02
459	457	459	43.15	0.01	0.00	0.00	0.12	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
460	460	459	-17.24	0.00	0.00	0.00	0.05	0.00
465	460	465	75.14	0.04	0.00	0.00	0.21	0.03
470	465	470	-420.28	0.16	0.00	0.00	1.19	0.83
475	470	475	-383.07	0.14	0.00	0.00	1.09	0.70
480	475	480	-388.26	0.13	0.00	0.00	1.10	0.71
485	480	485	-354.72	0.12	0.00	0.00	1.01	0.60
490	485	490	-635.85	0.66	0.00	0.00	1.80	1.78
495	490	495	-713.33	0.82	0.00	0.00	2.02	2.21
500	495	500	-765.18	0.87	0.00	0.00	2.17	2.51
505	500	505	-678.20	0.70	0.00	0.00	1.92	2.01
510	505	510	-788.37	0.97	0.00	0.00	2.24	2.65
515	510	100	-950.20	1.29	0.00	0.00	2.70	3.75
600	455	600	398.88	0.23	0.00	0.00	1.13	0.75
605	600	605	475.97	0.19	0.00	0.00	1.35	1.04
610	605	610	450.87	0.47	0.00	0.00	1.28	0.94
615	610	615	479.00	0.35	0.00	0.00	1.36	1.05
620	615	620	420.22	0.28	0.00	0.00	1.19	0.83
625	620	625	217.71	0.08	0.00	0.00	0.62	0.24
630	625	630	166.55	0.05	0.00	0.00	0.47	0.15
635	630	635	195.96	0.07	0.00	0.00	0.56	0.20
640	635	640	96.66	0.03	0.00	0.00	0.27	0.05
645	640	645	239.67	0.07	0.00	0.00	0.68	0.29
650	645	650	157.30	0.07	0.00	0.00	0.45	0.13
655	650	655	157.30	0.09	0.00	0.00	0.45	0.13
660	655	660	61.83	0.07	0.00	0.00	0.39	0.17
700	465	700	478.61	0.41	0.00	0.00	1.36	1.05
705	700	705	534.98	0.47	0.00	0.00	1.52	1.29
710	705	710	584.44	0.66	0.00	0.00	1.66	1.52
715	710	715	437.52	0.13	0.00	0.00	1.24	0.89
720	715	720	383.39	0.24	0.00	0.00	1.09	0.70
725	720	725	146.62	0.09	0.00	0.00	0.60	0.29
730	725	730	152.01	0.15	0.00	0.00	0.62	0.31
735	730	735	121.55	0.06	0.00	0.00	0.50	0.20
740	735	740	107.98	0.05	0.00	0.00	0.44	0.16
745	740	745	99.60	0.05	0.00	0.00	0.41	0.14
750	745	750	109.07	0.03	0.00	0.00	0.45	0.17
800	400	800	1129.61	0.52	0.00	0.00	1.42	0.72
810	800	810	1116.01	0.46	0.00	0.00	1.41	0.70
820	810	820	880.13	0.30	0.00	0.00	1.11	0.45
830	820	830	969.26	0.16	0.00	0.00	1.22	0.54
840	830	840	1021.14	0.23	0.00	0.00	1.29	0.59
845	840	860	323.79	0.04	0.00	0.00	0.92	0.51
850	840	850	688.93	0.14	0.00	0.00	0.87	0.29



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
860	850	5000	688.93	0.19	0.00	0.00	0.87	0.29
875	860	870	68.88	0.02	0.00	0.00	0.20	0.03
880	870	880	-28.79	0.00	0.00	0.00	0.08	0.01
890	880	890	-112.21	0.02	0.00	0.00	0.32	0.07
895	890	3025	-190.99	0.06	0.00	0.00	0.54	0.19
900	420	900	45.92	0.01	0.00	0.00	0.13	0.01
910	900	910	30.87	0.00	0.00	0.00	0.09	0.01
920	910	920	212.82	0.16	0.00	0.00	0.60	0.23
930	920	5000	176.23	0.11	0.00	0.00	0.50	0.17
935	5000	935	186.86	0.01	0.00	0.00	0.53	0.18
940	935	940	148.44	0.05	0.00	0.00	0.42	0.12
950	940	950	143.06	0.05	0.00	0.00	0.41	0.11
960	950	960	156.63	0.04	0.00	0.00	0.44	0.13
970	960	970	55.86	0.01	0.00	0.00	0.16	0.02
980	970	980	5.29	0.00	0.00	0.00	0.02	0.00
1000	260	1000	-102.61	0.23	0.00	0.00	0.65	0.44
1010	1000	1010	-100.70	0.41	0.00	0.00	0.64	0.42
1015	1010	1015	-419.36	2.04	0.00	0.00	2.68	5.94
1020	1015	50	-410.88	4.09	0.00	0.00	2.62	5.72
1030	260	1030	-129.16	0.58	0.00	0.00	0.82	0.67
1040	1030	1040	66.88	0.04	0.00	0.00	0.43	0.20
1050	1040	1050	11.62	0.01	0.00	0.00	0.07	0.01
1060	1050	1060	-31.89	0.06	0.00	0.00	0.36	0.20
1070	1060	1070	-73.28	0.59	0.00	0.00	0.83	0.95
1080	1070	1080	-199.70	1.65	0.00	0.00	2.27	6.10
1090	1080	50	-256.83	3.93	0.00	0.00	2.91	9.72
1100	1015	1090	-23.04	0.06	0.00	0.00	0.26	0.11
1105	1090	1080	-37.61	0.10	0.00	0.00	0.43	0.28
1110	1000	1100	-31.68	0.16	0.00	0.00	0.36	0.20
1115	1100	1110	-41.00	0.16	0.00	0.00	0.47	0.33
1120	1010	1110	81.37	0.09	0.00	0.00	0.52	0.29
1125	1110	1050	26.90	0.01	0.00	0.00	0.17	0.04
1150	1040	1150	38.34	0.08	0.00	0.00	0.43	0.29
1155	1150	1155	-2.31	0.00	0.00	0.00	0.03	0.00
1160	1155	1160	-15.44	0.03	0.00	0.00	0.18	0.05
1165	1050	1160	54.06	0.04	0.00	0.00	0.35	0.13
1170	1150	1170	23.10	0.03	0.00	0.00	0.26	0.11
1175	1170	1175	3.92	0.00	0.00	0.00	0.04	0.00
1180	1175	1180	-10.89	0.01	0.00	0.00	0.12	0.03
1185	1180	1185	-25.70	0.04	0.00	0.00	0.29	0.14
1190	1160	1185	21.65	0.01	0.00	0.00	0.14	0.02
1195	1185	1205	-22.66	0.01	0.00	0.00	0.14	0.03
1200	1060	1200	21.06	0.02	0.00	0.00	0.24	0.09





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1205	1200	1205	34.16	0.08	0.00	0.00	0.39	0.23
1210	1070	1210	105.02	0.50	0.00	0.00	1.19	1.86
1215	1210	1200	30.17	0.11	0.00	0.00	0.34	0.18
1220	1210	1220	56.67	0.17	0.00	0.00	0.64	0.59
1225	1220	1225	30.85	0.01	0.00	0.00	0.20	0.05
1230	1205	1225	-9.99	0.00	0.00	0.00	0.06	0.01
1240	1170	1240	9.86	0.00	0.00	0.00	0.11	0.02
1245	1175	1245	9.86	0.00	0.00	0.00	0.11	0.02
1250	1180	1250	9.86	0.00	0.00	0.00	0.11	0.02
1255	1185	1255	9.86	0.00	0.00	0.00	0.11	0.02
1260	1205	1260	8.41	0.00	0.00	0.00	0.10	0.02
1265	1225	1265	11.64	0.01	0.00	0.00	0.13	0.03
1270	1220	1270	11.64	0.01	0.00	0.00	0.13	0.03
1275	1030	1275	-200.85	0.69	0.00	0.00	1.28	1.52
1280	1275	250	-238.50	1.00	0.00	0.00	1.52	2.09
1300	270	1300	46.41	0.23	0.00	0.00	0.53	0.41
1305	1300	1305	-73.83	0.86	0.00	0.00	0.84	0.97
1310	1300	1310	97.89	0.09	0.00	0.00	0.62	0.40
1315	1310	1315	74.14	0.04	0.00	0.00	0.47	0.24
1320	1315	1320	-40.09	0.06	0.00	0.00	0.26	0.08
1325	1320	1305	-101.44	0.93	0.00	0.00	1.15	1.74
1327	300	1325	-226.45	0.10	0.00	0.00	0.64	0.26
1330	1315	1330	95.96	0.61	0.00	0.00	1.09	1.57
1335	1320	1335	34.95	0.09	0.00	0.00	0.40	0.24
1340	1325	1330	-221.58	0.05	0.00	0.00	0.63	0.25
1345	1330	1335	-140.96	0.58	0.00	0.00	0.90	0.79
1350	1335	1350	-217.54	1.06	0.00	0.00	1.39	1.76
1355	1350	70	-371.70	2.92	0.00	0.00	2.37	4.75
1360	60	1360	490.42	10.32	0.00	0.00	5.56	32.22
1365	1360	1365	163.47	2.29	0.00	0.00	1.85	4.21
1370	1360	1370	163.47	1.14	0.00	0.00	1.85	4.21
1375	1010	1305	205.75	0.61	0.00	0.00	1.31	1.59
1380	280	1310	-23.75	0.00	0.00	0.00	0.07	0.00
1400	320	1403	-90.39	0.43	0.00	0.00	1.03	1.41
1404	1400	1403	57.96	0.20	0.00	0.00	0.66	0.62
1405	1400	1405	-22.78	0.03	0.00	0.00	0.26	0.11
1410	1405	1325	14.01	0.01	0.00	0.00	0.16	0.04
1420	1400	1420	-52.97	0.27	0.00	0.00	0.60	0.52
1425	1420	1425	-39.82	0.13	0.00	0.00	0.45	0.31
1430	1425	1430	-47.66	0.26	0.00	0.00	0.54	0.43
1435	1405	1435	-55.30	0.54	0.00	0.00	0.63	0.57
1440	1435	1440	-56.15	0.35	0.00	0.00	0.64	0.58
1445	1420	1445	-22.77	0.06	0.00	0.00	0.26	0.11



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1450	1445	1450	-54.25	0.33	0.00	0.00	0.62	0.55
1455	1403	1455	-46.14	0.23	0.00	0.00	0.52	0.40
1460	1455	1460	-47.19	0.16	0.00	0.00	0.54	0.42
1465	1460	1465	-51.02	0.29	0.00	0.00	0.58	0.49
1470	1455	1470	-8.56	0.07	0.00	0.00	0.22	0.13
1475	1470	1475	-58.83	0.38	0.00	0.00	0.67	0.63
1480	325	1470	-100.13	0.07	0.00	0.00	0.64	0.42
1485	1470	1460	-59.00	0.11	0.00	0.00	0.67	0.64
1490	1460	1445	-69.11	0.15	0.00	0.00	0.78	0.86
1495	1445	1425	-46.76	0.07	0.00	0.00	0.53	0.41
1500	1425	1435	-54.30	0.17	0.00	0.00	0.62	0.55
1505	1435	1335	-81.34	0.08	0.00	0.00	0.52	0.28
1510	330	1475	38.23	0.05	0.00	0.00	0.43	0.29
1515	1475	1465	-20.60	0.02	0.00	0.00	0.23	0.09
1520	1465	1450	-78.35	0.19	0.00	0.00	0.89	1.08
1525	1450	1430	-9.29	0.00	0.00	0.00	0.11	0.02
1530	1430	1440	-67.05	0.26	0.00	0.00	0.76	0.81
1535	1350	1440	136.66	0.79	0.00	0.00	1.55	3.02
1540	1450	1540	-130.04	0.26	0.00	0.00	0.83	0.68
1545	1540	80	-164.42	1.34	0.00	0.00	1.87	4.26
1600	400	1600	-8.62	0.01	0.00	0.00	0.10	0.02
1605	1600	1605	-17.42	0.05	0.00	0.00	0.20	0.07
1610	415	1610	-157.17	0.89	0.00	0.00	1.00	0.96
1615	1610	1615	-79.50	0.20	0.00	0.00	0.90	1.11
1620	1615	1605	-47.66	0.15	0.00	0.00	0.54	0.43
1622	1610	1620	-86.85	0.13	0.00	0.00	0.55	0.32
1624	1620	1625	-163.40	0.19	0.00	0.00	1.04	1.04
1625	1615	1625	-40.50	0.13	0.00	0.00	0.46	0.32
1627	1625	1630	-194.11	0.49	0.00	0.00	1.24	1.43
1630	1605	1630	-82.53	0.47	0.00	0.00	0.94	1.19
1635	1630	1635	-244.67	0.74	0.00	0.00	1.56	2.19
1637	1635	325	-206.03	0.25	0.00	0.00	1.31	1.59
1640	1620	1640	-54.38	0.08	0.00	0.00	0.35	0.14
1645	1625	1645	-31.91	0.12	0.00	0.00	0.36	0.20
1650	1630	1650	-54.09	0.33	0.00	0.00	0.61	0.54
1655	1635	1655	-54.17	0.33	0.00	0.00	0.61	0.54
1660	1640	505	-37.27	0.19	0.00	0.00	0.42	0.27
1665	1647	510	-56.97	0.41	0.00	0.00	0.65	0.60
1670	1653	100	-88.30	0.91	0.00	0.00	1.00	1.35
1675	1640	1645	-85.18	0.24	0.00	0.00	0.97	1.26
1680	1645	1647	-130.55	0.51	0.00	0.00	1.48	2.78
1685	1647	1650	-80.51	0.18	0.00	0.00	0.91	1.13
1690	1650	1653	-148.06	0.61	0.00	0.00	1.68	3.51



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1695	1653	1655	-66.53	0.13	0.00	0.00	0.75	0.80
1697	1655	330	-127.43	0.43	0.00	0.00	1.45	2.66
1700	425	1700	-49.91	0.63	0.00	0.00	0.57	0.47
1702	1620	1702	130.98	0.98	0.00	0.00	1.49	2.79
1705	1700	495	-8.79	0.01	0.00	0.00	0.06	0.00
1710	1700	1702	-71.32	0.33	0.00	0.00	0.81	0.91
1715	1640	1705	60.81	0.24	0.00	0.00	0.69	0.67
1720	1705	500	46.34	0.28	0.00	0.00	0.53	0.41
1750	435	1750	25.02	0.09	0.00	0.00	0.28	0.13
1755	1750	1755	-10.56	0.03	0.00	0.00	0.12	0.03
1760	1755	490	-46.52	0.28	0.00	0.00	0.53	0.41
1770	440	1770	73.23	0.16	0.00	0.00	0.47	0.23
1775	1770	1775	71.82	0.15	0.00	0.00	0.46	0.23
1780	1775	1780	-64.58	0.02	0.00	0.00	0.18	0.03
1785	1780	485	-296.51	0.16	0.00	0.00	0.84	0.43
1790	445	1790	14.55	0.03	0.00	0.00	0.17	0.05
1795	1790	1770	10.71	0.01	0.00	0.00	0.12	0.03
1800	460	1800	-240.64	0.11	0.00	0.00	0.68	0.29
1805	1800	1805	-171.55	0.14	0.00	0.00	0.49	0.16
1810	1805	475	-2.36	0.00	0.00	0.00	0.01	0.00
1815	1805	1780	-214.48	0.09	0.00	0.00	0.61	0.24
1820	1800	1775	-115.25	0.21	0.00	0.00	0.74	0.54
1880	605	1880	1.30	0.00	0.00	0.00	0.01	0.00
1900	610	1900	48.45	0.29	0.00	0.00	0.55	0.44
1902	1900	1945	20.56	0.06	0.00	0.00	0.23	0.09
1905	615	1905	43.72	0.24	0.00	0.00	0.50	0.37
1907	1905	1950	30.60	0.13	0.00	0.00	0.35	0.19
1910	620	1910	40.38	0.19	0.00	0.00	0.46	0.32
1912	1910	1955	25.23	0.09	0.00	0.00	0.29	0.13
1915	625	1915	39.91	0.22	0.00	0.00	0.45	0.31
1917	1915	1960	28.37	0.10	0.00	0.00	0.32	0.16
1920	635	1920	95.93	0.23	0.00	0.00	0.61	0.39
1925	1920	1925	36.45	0.03	0.00	0.00	0.23	0.06
1927	1925	1965	25.15	0.01	0.00	0.00	0.16	0.03
1930	1920	1930	38.18	0.03	0.00	0.00	0.24	0.07
1932	1930	1970	28.18	0.02	0.00	0.00	0.18	0.04
1935	460	1935	182.74	0.48	0.00	0.00	1.17	1.28
1937	1935	1975	-37.07	0.01	0.00	0.00	0.11	0.01
1940	1935	1940	197.06	0.53	0.00	0.00	1.26	1.47
1942	1940	1980	4.30	0.00	0.00	0.00	0.05	0.00
1945	1940	1945	155.98	0.22	0.00	0.00	1.00	0.95
1950	1945	1950	165.49	0.36	0.00	0.00	1.06	1.06
1952	1950	1990	51.51	0.07	0.00	0.00	0.33	0.12





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1955	1950	1955	120.78	0.20	0.00	0.00	0.77	0.59
1957	1955	1995	25.19	0.08	0.00	0.00	0.29	0.13
1960	1955	1960	91.25	0.12	0.00	0.00	0.58	0.35
1962	1960	2000	37.01	0.04	0.00	0.00	0.24	0.07
1965	1960	1965	57.85	0.07	0.00	0.00	0.37	0.15
1967	1965	2005	37.05	0.16	0.00	0.00	0.42	0.27
1970	1965	1970	10.22	0.00	0.00	0.00	0.07	0.01
1972	1970	655	-32.36	0.01	0.00	0.00	0.21	0.05
1973	1970	2010	41.48	0.20	0.00	0.00	0.47	0.33
1975	1975	700	-53.61	0.01	0.00	0.00	0.15	0.02
1980	1980	705	-22.72	0.08	0.00	0.00	0.26	0.11
1982	1982	1985	-4.23	0.00	0.00	0.00	0.05	0.00
1985	1985	710	-60.01	0.01	0.00	0.00	0.17	0.02
1987	1985	1990	45.68	0.06	0.00	0.00	0.52	0.40
1990	1990	715	19.51	0.06	0.00	0.00	0.22	0.08
1992	1990	1995	58.02	0.21	0.00	0.00	0.66	0.62
1995	1995	720	24.78	0.09	0.00	0.00	0.28	0.13
1997	1995	2000	34.15	0.08	0.00	0.00	0.39	0.23
2000	2000	725	58.56	0.10	0.00	0.00	0.37	0.16
2005	2005	730	19.60	0.06	0.00	0.00	0.22	0.08
2010	2010	735	24.03	0.09	0.00	0.00	0.27	0.12
2012	655	2015	43.84	0.24	0.00	0.00	0.50	0.37
2015	2015	740	26.38	0.10	0.00	0.00	0.30	0.14
2017	660	2020	44.37	0.22	0.00	0.00	0.50	0.38
2020	2020	745	26.92	0.11	0.00	0.00	0.31	0.15
2200	230	2200	61.06	0.00	0.00	0.00	0.08	0.00
2210	2200	2210	61.06	0.00	0.00	0.00	0.08	0.00
2220	2210	2220	61.06	0.00	0.00	0.00	0.08	0.00
2230	2220	2230	0.00	0.00	0.00	0.00	0.00	0.00
2300	2220	2300	61.06	0.05	0.00	0.00	0.39	0.17
2310	2300	2310	6.49	0.00	0.00	0.00	0.04	0.00
2320	2300	2320	2.88	0.00	0.00	0.00	0.02	0.00
2330	2300	2330	42.31	0.03	0.00	0.00	0.27	0.08
2340	2330	2340	6.49	0.00	0.00	0.00	0.04	0.00
2350	2330	2350	2.88	0.00	0.00	0.00	0.02	0.00
2360	2330	2360	23.56	0.01	0.00	0.00	0.15	0.03
2370	2360	2370	6.49	0.00	0.00	0.00	0.04	0.00
2380	2360	2380	2.88	0.00	0.00	0.00	0.02	0.00
2400	9470	2400	-984.39	0.46	0.00	0.00	1.24	0.56
2410	2400	2410	-984.39	0.39	0.00	0.00	1.24	0.56
2420	2410	2420	-984.39	0.35	0.00	0.00	1.24	0.56
2430	2420	2430	-147.29	0.00	0.00	0.00	0.19	0.02
2440	2430	2440	-161.72	0.28	0.00	0.00	1.03	1.02





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
2445	2440	15	-219.41	0.47	0.00	0.00	1.40	1.79
2450	2440	2450	43.27	0.02	0.00	0.00	0.28	0.09
2460	2450	2460	14.42	0.00	0.00	0.00	0.09	0.01
2470	2450	2470	14.42	0.00	0.00	0.00	0.09	0.01
3000	300	3000	647.09	0.86	0.00	0.00	1.84	1.84
3005	3000	3005	558.93	0.38	0.00	0.00	1.59	1.40
3010	3005	3010	483.76	0.62	0.00	0.00	1.37	1.07
3015	3010	3015	431.63	0.51	0.00	0.00	1.22	0.87
3017	3540	3010	-30.47	0.06	0.00	0.00	0.35	0.19
3020	3015	3020	420.24	0.32	0.00	0.00	1.19	0.83
3025	3020	3025	431.81	0.39	0.00	0.00	1.22	0.87
3030	3025	3030	55.66	0.00	0.00	0.00	0.16	0.02
3035	3030	3035	38.30	0.00	0.00	0.00	0.05	0.00
3040	3035	3040	38.30	0.00	0.00	0.00	0.05	0.00
3045	3040	3045	169.99	0.07	0.00	0.00	0.48	0.15
3050	3045	3050	102.05	0.03	0.00	0.00	0.29	0.06
3055	3050	3055	102.05	0.02	0.00	0.00	0.29	0.06
3060	3055	3060	46.24	0.00	0.00	0.00	0.13	0.01
3065	3025	3065	180.36	0.09	0.00	0.00	0.51	0.17
3070	3065	3070	173.14	0.07	0.00	0.00	0.49	0.16
3075	3070	3075	71.16	0.02	0.00	0.00	0.20	0.03
3080	3075	3080	61.54	0.01	0.00	0.00	0.17	0.02
3100	300	3100	-10.84	0.01	0.00	0.00	0.12	0.03
3105	3100	3105	0.77	0.00	0.00	0.00	0.01	0.00
3110	3100	3110	-11.61	0.02	0.00	0.00	0.13	0.03
3115	3110	3115	-15.45	0.02	0.00	0.00	0.18	0.05
3120	270	3115	294.64	1.08	0.00	0.00	1.88	3.09
3122	270	260	-184.76	0.61	0.00	0.00	1.18	1.30
3125	260	3130	379.48	2.76	0.00	0.00	2.42	4.94
3130	3115	3270	273.42	1.10	0.00	0.00	1.75	2.69
3140	3130	3140	148.63	0.48	0.00	0.00	0.95	0.87
3145	3140	3145	134.69	0.21	0.00	0.00	0.86	0.72
3147	3145	3147	14.42	0.00	0.00	0.00	0.09	0.01
3150	3130	3150	205.61	0.55	0.00	0.00	1.31	1.59
3152	3245	3150	-104.42	0.69	0.00	0.00	1.18	1.84
3155	3150	3145	75.94	0.14	0.00	0.00	0.48	0.25
3200	3200	3205	39.94	0.15	0.00	0.00	0.45	0.31
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	20.34	0.03	0.00	0.00	0.23	0.09
3210	3205	3215	34.70	0.20	0.00	0.00	0.39	0.24
3215	3215	3220	5.72	0.00	0.00	0.00	0.06	0.01
3217	3235	3215	-8.06	0.00	0.00	0.00	0.05	0.00
3220	3145	3225	182.26	0.47	0.00	0.00	1.16	1.27



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3225	3225	3230	114.15	0.26	0.00	0.00	0.73	0.53
3227	3225	3200	49.94	0.14	0.00	0.00	0.57	0.47
3230	3230	3235	37.46	0.23	0.00	0.00	0.43	0.28
3233	3252	3230	-28.56	0.05	0.00	0.00	0.32	0.17
3235	3235	3240	5.72	0.00	0.00	0.00	0.06	0.01
3237	3257	3235	-18.89	0.01	0.00	0.00	0.12	0.02
3245	3250	3245	-43.29	0.18	0.00	0.00	0.49	0.36
3247	3245	3247	45.79	0.11	0.00	0.00	0.52	0.40
3249	3247	3252	36.27	0.13	0.00	0.00	0.41	0.26
3250	3250	3255	86.70	0.31	0.00	0.00	0.55	0.32
3251	3280	3250	101.24	0.59	0.00	0.00	1.15	1.73
3252	3252	3257	70.54	0.18	0.00	0.00	0.45	0.22
3254	3250	3252	30.42	0.06	0.00	0.00	0.35	0.19
3255	3255	3040	131.69	0.31	0.00	0.00	0.84	0.70
3257	3255	3257	-62.79	0.06	0.00	0.00	0.40	0.18
3259	3257	3259	5.72	0.00	0.00	0.00	0.04	0.00
3260	3005	3260	64.21	0.24	0.00	0.00	0.73	0.75
3262	3260	3262	4.23	0.00	0.00	0.00	0.05	0.00
3264	3260	3295	60.18	0.39	0.00	0.00	0.68	0.66
3265	3260	3265	-15.97	0.02	0.00	0.00	0.18	0.06
3267	3265	3267	4.23	0.00	0.00	0.00	0.05	0.00
3269	3265	3290	54.70	0.33	0.00	0.00	0.62	0.55
3270	3265	3270	-90.67	0.40	0.00	0.00	1.03	1.41
3273	3275	3280	65.06	0.46	0.00	0.00	0.74	0.76
3274	3270	3285	82.31	0.70	0.00	0.00	0.93	1.18
3275	3270	3275	85.06	0.36	0.00	0.00	0.97	1.26
3277	3275	3277	4.23	0.00	0.00	0.00	0.05	0.00
3280	3280	3285	-47.72	0.12	0.00	0.00	0.54	0.43
3285	3285	3290	23.05	0.03	0.00	0.00	0.26	0.11
3290	3290	3295	37.17	0.08	0.00	0.00	0.42	0.27
3295	3295	3010	-3.15	0.00	0.00	0.00	0.04	0.00
3297	3295	3300	69.24	0.83	0.00	0.00	0.79	0.86
3300	3020	3300	12.72	0.00	0.00	0.00	0.08	0.01
3305	3300	3305	62.25	0.05	0.00	0.00	0.40	0.17
3310	3305	3310	6.25	0.00	0.00	0.00	0.04	0.00
3315	3305	3315	43.16	0.03	0.00	0.00	0.28	0.09
3320	3315	3320	6.25	0.00	0.00	0.00	0.04	0.00
3325	3315	3325	24.07	0.01	0.00	0.00	0.15	0.03
3330	3325	3330	6.25	0.00	0.00	0.00	0.04	0.00
3335	3255	3325	-4.99	0.00	0.00	0.00	0.03	0.00
3400	3020	3400	-40.49	0.03	0.00	0.00	0.26	0.08
3405	3400	3405	4.81	0.00	0.00	0.00	0.05	0.01
3410	3400	3410	-53.71	0.04	0.00	0.00	0.34	0.13



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3415	3410	3415	4.81	0.00	0.00	0.00	0.05	0.01
3420	3410	3420	92.74	0.12	0.00	0.00	0.59	0.36
3425	3420	3425	4.81	0.00	0.00	0.00	0.05	0.01
3430	3420	3430	79.52	0.08	0.00	0.00	0.51	0.27
3435	3430	3435	4.81	0.00	0.00	0.00	0.05	0.01
3437	3430	830	66.30	0.06	0.00	0.00	0.42	0.20
3440	820	3440	-103.55	0.13	0.00	0.00	0.66	0.45
3445	810	3450	-61.78	0.21	0.00	0.00	0.70	0.69
3450	3440	3450	-117.97	0.38	0.00	0.00	0.75	0.57
3460	3460	3450	155.00	0.68	0.00	0.00	0.99	0.94
3467	3460	315	-168.60	0.69	0.00	0.00	1.08	1.10
3470	310	3470	84.34	0.77	0.00	0.00	0.96	1.24
3475	3450	3480	-49.80	0.14	0.00	0.00	0.57	0.47
3480	3470	3480	70.74	0.62	0.00	0.00	0.80	0.89
3490	3480	3490	40.40	0.21	0.00	0.00	0.46	0.32
3500	3490	3500	26.55	0.04	0.00	0.00	0.30	0.15
3505	3500	3410	163.29	0.29	0.00	0.00	1.04	1.04
3510	3500	3510	-116.25	0.38	0.00	0.00	0.74	0.55
3515	3480	3510	-44.51	0.12	0.00	0.00	0.51	0.38
3520	3510	3520	-154.01	0.80	0.00	0.00	0.98	0.93
3525	3520	305	-192.92	0.65	0.00	0.00	1.23	1.41
3530	3520	3530	17.86	0.01	0.00	0.00	0.11	0.02
3535	3530	3000	-72.15	0.30	0.00	0.00	0.82	0.93
3540	3530	3540	70.29	0.76	0.00	0.00	0.80	0.88
3545	3510	3540	-22.53	0.03	0.00	0.00	0.26	0.11
3550	3540	3550	51.16	0.33	0.00	0.00	0.58	0.49
3555	3550	3500	36.73	0.08	0.00	0.00	0.42	0.27
3600	405	3600	111.05	0.33	0.00	0.00	0.71	0.51
3603	810	3605	272.60	0.10	0.00	0.00	0.77	0.37
3605	3600	3605	96.00	0.26	0.00	0.00	0.61	0.39
3610	410	3610	80.27	0.18	0.00	0.00	0.51	0.28
3613	3605	3615	349.37	0.17	0.00	0.00	0.99	0.59
3615	3610	3615	65.22	0.13	0.00	0.00	0.42	0.19
3620	415	3620	73.55	0.18	0.00	0.00	0.47	0.24
3623	3615	3625	399.54	0.21	0.00	0.00	1.13	0.75
3625	3620	3625	58.50	0.10	0.00	0.00	0.37	0.15
3627	3625	910	442.99	0.26	0.00	0.00	1.26	0.91
3630	425	3630	31.82	0.14	0.00	0.00	0.36	0.20
3633	910	3635	211.61	0.55	0.00	0.00	1.35	1.67
3635	3630	3635	16.77	0.04	0.00	0.00	0.19	0.06
3640	430	3640	25.45	0.02	0.00	0.00	0.16	0.03
3642	3635	3645	104.74	0.09	0.00	0.00	0.67	0.45
3643	3640	3643	25.45	0.02	0.00	0.00	0.16	0.03





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3645	3643	3645	25.45	0.01	0.00	0.00	0.16	0.03
3650	440	3650	5.11	0.00	0.00	0.00	0.06	0.01
3655	3650	440	-1.09	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	124.72	0.23	0.00	0.00	0.80	0.63
3667	3697	3665	-10.87	0.00	0.00	0.00	0.07	0.01
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	79.33	0.07	0.00	0.00	0.51	0.27
3677	3675	4510	79.33	0.09	0.00	0.00	0.51	0.27
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00
3685	3635	3685	86.91	0.22	0.00	0.00	0.55	0.32
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	76.28	0.10	0.00	0.00	0.49	0.25
3697	3695	3697	16.10	0.01	0.00	0.00	0.10	0.01
3698	3695	3698	32.92	0.02	0.00	0.00	0.21	0.05
3699	3698	4520	32.92	0.02	0.00	0.00	0.21	0.05
4000	3045	4000	59.77	0.08	0.00	0.00	0.38	0.16
4010	4000	4010	17.25	0.01	0.00	0.00	0.11	0.02
4020	4010	4020	-1.16	0.00	0.00	0.00	0.01	0.00
4025	4020	3070	-21.08	0.01	0.00	0.00	0.13	0.02
4030	4020	4030	1.50	0.00	0.00	0.00	0.01	0.00
4040	4030	4040	-20.62	0.01	0.00	0.00	0.13	0.02
4045	4040	3060	-33.31	0.03	0.00	0.00	0.21	0.05
4050	4000	4050	21.07	0.01	0.00	0.00	0.13	0.02
4060	4050	4060	11.89	0.00	0.00	0.00	0.08	0.01
4070	4060	4070	-2.39	0.00	0.00	0.00	0.02	0.00
4080	4070	4080	-28.88	0.01	0.00	0.00	0.18	0.04
4090	4080	3055	-38.50	0.03	0.00	0.00	0.25	0.07
4100	4100	4105	-35.77	0.01	0.00	0.00	0.23	0.06
4103	3070	4105	61.68	0.06	0.00	0.00	0.39	0.17
4105	4105	4110	-53.10	0.05	0.00	0.00	0.34	0.13
4110	4110	890	-65.94	0.09	0.00	0.00	0.42	0.19
4115	4115	4120	-36.03	0.01	0.00	0.00	0.23	0.06
4120	4120	4125	-57.75	0.06	0.00	0.00	0.37	0.15
4123	4105	4120	56.56	0.04	0.00	0.00	0.36	0.15
4125	4125	880	-70.59	0.11	0.00	0.00	0.45	0.22
4130	4130	4135	-44.70	0.02	0.00	0.00	0.29	0.09
4133	4120	4135	55.82	0.04	0.00	0.00	0.36	0.14
4135	4135	4140	-56.32	0.05	0.00	0.00	0.36	0.14
4137	4135	4225	49.65	0.06	0.00	0.00	0.32	0.11
4140	4140	4145	-74.59	0.08	0.00	0.00	0.48	0.24
4145	4145	870	-92.86	0.07	0.00	0.00	0.59	0.36
4150	4140	4150	6.73	0.00	0.00	0.00	0.04	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4155	4145	4155	6.73	0.00	0.00	0.00	0.04	0.00
4200	860	4200	148.56	0.22	0.00	0.00	0.95	0.87
4205	4200	4205	80.56	0.08	0.00	0.00	0.51	0.28
4210	4205	4210	25.76	0.01	0.00	0.00	0.16	0.03
4215	4210	935	-33.03	0.01	0.00	0.00	0.21	0.05
4220	860	4220	92.65	0.19	0.00	0.00	0.59	0.36
4225	4220	4225	78.94	0.10	0.00	0.00	0.50	0.27
4227	4225	4235	58.83	0.05	0.00	0.00	0.38	0.16
4230	4200	4230	57.28	0.07	0.00	0.00	0.37	0.15
4235	4230	4235	46.56	0.04	0.00	0.00	0.30	0.10
4237	4235	4245	53.28	0.04	0.00	0.00	0.34	0.13
4240	4205	4240	44.07	0.05	0.00	0.00	0.28	0.09
4245	4240	4245	33.35	0.02	0.00	0.00	0.21	0.05
4247	4245	4255	39.04	0.02	0.00	0.00	0.25	0.07
4250	4210	4250	48.07	0.05	0.00	0.00	0.31	0.11
4255	4250	4255	37.35	0.03	0.00	0.00	0.24	0.07
4257	4255	950	25.02	0.01	0.00	0.00	0.16	0.03
4260	4225	4260	34.19	0.03	0.00	0.00	0.22	0.06
4265	4260	4265	20.48	0.01	0.00	0.00	0.13	0.02
4266	4265	4266	-55.44	0.02	0.00	0.00	0.35	0.14
4267	4265	4275	51.64	0.04	0.00	0.00	0.33	0.12
4268	4265	4267	5.29	0.00	0.00	0.00	0.03	0.00
4270	4235	4270	29.22	0.02	0.00	0.00	0.19	0.04
4275	4270	4275	17.06	0.01	0.00	0.00	0.11	0.02
4277	4275	4285	45.95	0.03	0.00	0.00	0.29	0.10
4278	4275	4278	5.29	0.00	0.00	0.00	0.03	0.00
4280	4245	4280	24.71	0.02	0.00	0.00	0.16	0.03
4285	4280	4285	12.55	0.00	0.00	0.00	0.08	0.01
4287	4285	4295	46.34	0.03	0.00	0.00	0.30	0.10
4290	4255	4290	28.53	0.02	0.00	0.00	0.18	0.04
4295	4290	4295	16.42	0.01	0.00	0.00	0.10	0.01
4297	4295	970	50.64	0.03	0.00	0.00	0.32	0.12
4300	960	4300	88.37	0.10	0.00	0.00	0.56	0.33
4305	4300	4340	6.99	0.00	0.00	0.00	0.04	0.00
4310	4300	4310	68.64	0.06	0.00	0.00	0.44	0.21
4315	4310	4350	5.72	0.00	0.00	0.00	0.04	0.00
4320	4310	4320	50.19	0.04	0.00	0.00	0.32	0.12
4325	4320	4360	0.37	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	37.08	0.02	0.00	0.00	0.24	0.07
4335	4330	4370	-0.14	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	24.48	0.01	0.00	0.00	0.16	0.03
4340	970	4340	83.56	0.09	0.00	0.00	0.53	0.30
4345	4340	4380	5.29	0.00	0.00	0.00	0.03	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4350	4340	4350	67.23	0.06	0.00	0.00	0.43	0.20
4355	4350	4390	5.29	0.00	0.00	0.00	0.03	0.00
4360	4350	4360	49.62	0.03	0.00	0.00	0.32	0.11
4370	4360	4370	37.25	0.02	0.00	0.00	0.24	0.07
4375	4370	4590	24.37	0.01	0.00	0.00	0.16	0.03
4400	4550	4400	-7.86	0.00	0.00	0.00	0.05	0.00
4410	4400	4410	-16.76	0.01	0.00	0.00	0.11	0.02
4420	4410	4420	-34.79	0.02	0.00	0.00	0.22	0.06
4430	4420	4430	7.21	0.00	0.00	0.00	0.05	0.00
4440	4420	5020	-51.13	0.08	0.00	0.00	0.33	0.12
4500	450	4500	-185.60	0.13	0.00	0.00	0.53	0.18
4510	4500	4510	-216.04	0.15	0.00	0.00	0.61	0.24
4520	4510	4520	-189.02	0.12	0.00	0.00	0.54	0.19
4530	4520	4530	-251.40	0.12	0.00	0.00	0.71	0.32
4540	4530	5030	-265.10	0.13	0.00	0.00	0.75	0.35
4545	5030	4540	61.06	0.00	0.00	0.00	0.08	0.00
4550	4540	4550	27.81	0.00	0.00	0.00	0.04	0.00
4560	4550	4560	-4.92	0.00	0.00	0.00	0.01	0.00
4570	4560	4570	-36.15	0.00	0.00	0.00	0.05	0.00
4580	4570	4580	-15.91	0.00	0.00	0.00	0.02	0.00
4590	4580	4590	-20.14	0.00	0.00	0.00	0.03	0.00
4600	600	4600	-90.60	0.24	0.00	0.00	0.58	0.35
4610	4600	4610	-110.31	0.33	0.00	0.00	0.70	0.50
4620	4610	4620	-110.31	0.33	0.00	0.00	0.70	0.50
4630	4620	5040	-110.31	0.35	0.00	0.00	0.70	0.50
4700	610	4700	-125.42	0.03	0.00	0.00	0.36	0.09
4710	4700	4710	-129.46	0.03	0.00	0.00	0.37	0.09
4720	4710	4720	-279.31	0.27	0.00	0.00	0.79	0.39
4730	4720	4730	-314.02	0.08	0.00	0.00	0.89	0.48
4740	4730	4740	-351.23	0.29	0.00	0.00	1.00	0.59
4750	4740	4750	-387.34	0.12	0.00	0.00	1.10	0.71
4760	4750	5050	-396.96	0.37	0.00	0.00	1.13	0.74
4800	620	4800	145.93	0.01	0.00	0.00	0.41	0.12
4810	4800	4810	-122.43	0.36	0.00	0.00	0.78	0.61
4820	4810	4820	-131.39	0.33	0.00	0.00	0.84	0.69
4830	4820	4830	-131.39	0.32	0.00	0.00	0.84	0.69
4840	4830	4840	-94.18	0.19	0.00	0.00	0.60	0.37
4850	4810	4850	-9.07	0.00	0.00	0.00	0.03	0.00
4860	4840	5060	-94.18	0.25	0.00	0.00	0.60	0.37
4870	4710	4850	110.90	0.35	0.00	0.00	1.26	2.05
4880	4850	4870	101.45	0.85	0.00	0.00	1.15	1.74
4885	4830	4880	-37.21	0.03	0.00	0.00	0.24	0.07
4890	4880	4730	-37.21	0.02	0.00	0.00	0.24	0.07





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4900	4800	4900	182.25	0.12	0.00	0.00	0.52	0.18
4905	4900	630	32.78	0.00	0.00	0.00	0.09	0.01
4910	4900	4910	94.99	0.02	0.00	0.00	0.27	0.05
4920	4910	4920	84.32	0.00	0.00	0.00	0.24	0.04
4930	4920	4930	159.07	0.06	0.00	0.00	0.45	0.14
4935	4930	640	147.81	0.01	0.00	0.00	0.42	0.12
4940	4930	4940	9.73	0.00	0.00	0.00	0.03	0.00
4945	4940	4947	-58.61	0.01	0.00	0.00	0.17	0.02
4950	4920	4950	-74.75	0.02	0.00	0.00	0.21	0.03
4955	4947	4955	-66.86	0.14	0.00	0.00	0.43	0.20
4957	4955	4995	-89.45	0.09	0.00	0.00	0.57	0.34
4960	4950	4960	-101.12	0.02	0.00	0.00	0.29	0.06
4965	4960	4965	-119.77	0.01	0.00	0.00	0.34	0.08
4970	4965	4970	-139.00	0.02	0.00	0.00	0.39	0.11
4975	4970	4975	-120.15	0.04	0.00	0.00	0.34	0.08
4977	4975	4977	-123.82	0.04	0.00	0.00	0.35	0.09
4980	4977	4980	-134.40	0.04	0.00	0.00	0.38	0.10
4985	4980	4985	-209.82	0.07	0.00	0.00	0.60	0.23
4990	4985	4990	-281.41	0.13	0.00	0.00	0.80	0.39
4993	5080	4990	418.29	0.26	0.00	0.00	1.19	0.82
4995	4980	4995	64.85	0.01	0.00	0.00	0.18	0.03
5000	5000	5010	655.18	0.14	0.00	0.00	0.83	0.26
5010	5010	5020	655.18	0.13	0.00	0.00	0.83	0.26
5020	5020	5030	604.05	0.11	0.00	0.00	0.76	0.22
5030	5030	5040	265.62	0.03	0.00	0.00	0.33	0.05
5040	5040	5050	1408.23	0.72	0.00	0.00	1.78	1.08
5050	5050	5060	1011.27	0.40	0.00	0.00	1.27	0.58
5060	5060	5070	917.10	0.54	0.00	0.00	1.16	0.49
5070	5070	5080	917.10	0.40	0.00	0.00	1.16	0.49
5080	5080	5090	498.81	0.12	0.00	0.00	0.63	0.16
5090	5090	6000	498.81	0.10	0.00	0.00	0.63	0.16
5100	4900	5100	-16.25	0.01	0.00	0.00	0.10	0.01
5105	5100	4960	-16.25	0.01	0.00	0.00	0.10	0.01
5110	4970	5110	-18.85	0.01	0.00	0.00	0.12	0.02
5120	5110	5120	-30.58	0.03	0.00	0.00	0.20	0.05
5125	5120	4975	-22.50	0.01	0.00	0.00	0.14	0.03
5130	5120	5130	-24.43	0.02	0.00	0.00	0.16	0.03
5140	5130	5140	-40.78	0.02	0.00	0.00	0.26	0.08
5145	5140	5150	-78.03	0.11	0.00	0.00	0.50	0.26
5150	5150	4990	-88.61	0.13	0.00	0.00	0.57	0.33
5160	5140	5160	11.29	0.00	0.00	0.00	0.07	0.01
5163	5160	4975	47.20	0.03	0.00	0.00	0.30	0.10
5165	5160	5170	-50.43	0.05	0.00	0.00	0.32	0.12





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5170	5170	4985	-61.01	0.06	0.00	0.00	0.39	0.17
5180	4965	5180	12.02	0.00	0.00	0.00	0.05	0.00
5190	4950	5190	23.96	0.07	0.00	0.00	0.27	0.12
5195	5190	4947	14.35	0.00	0.00	0.00	0.06	0.00
5200	4995	5200	-24.61	0.00	0.00	0.00	0.07	0.00
5205	5205	5200	37.14	0.00	0.00	0.00	0.11	0.01
5210	5205	5210	-44.98	0.00	0.00	0.00	0.13	0.01
5215	5210	5260	-30.20	0.00	0.00	0.00	0.09	0.01
5217	5210	5215	-20.54	0.03	0.00	0.00	0.23	0.09
5220	5220	5215	28.38	0.04	0.00	0.00	0.32	0.16
5225	5220	5265	62.07	0.01	0.00	0.00	0.18	0.02
5230	5230	5220	98.28	0.02	0.00	0.00	0.28	0.06
5235	5250	5230	-26.56	0.09	0.00	0.00	0.30	0.15
5237	5230	5235	-133.16	0.04	0.00	0.00	0.38	0.10
5240	5200	5240	1.33	0.00	0.00	0.00	0.02	0.00
5250	5240	5250	-4.59	0.00	0.00	0.00	0.05	0.01
5252	5250	5210	9.95	0.00	0.00	0.00	0.06	0.01
5255	5200	5255	3.37	0.00	0.00	0.00	0.04	0.00
5260	5255	5260	-8.41	0.01	0.00	0.00	0.10	0.02
5265	5260	5265	-135.02	0.06	0.00	0.00	0.38	0.10
5270	5260	5270	72.85	0.08	0.00	0.00	0.46	0.23
5272	5270	5279	70.63	0.14	0.00	0.00	0.45	0.22
5275	5280	5279	-44.81	0.02	0.00	0.00	0.29	0.09
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	-16.77	0.01	0.00	0.00	0.11	0.02
5285	5280	5290	-56.00	0.10	0.00	0.00	0.36	0.14
5290	5290	5295	-56.00	0.12	0.00	0.00	0.64	0.58
5292	5265	5292	-9.65	0.01	0.00	0.00	0.11	0.02
5295	5292	5297	-9.65	0.01	0.00	0.00	0.11	0.02
5297	5295	5297	-39.01	0.10	0.00	0.00	0.44	0.30
5500	4540	5500	25.75	0.01	0.00	0.00	0.16	0.03
5510	4550	5510	24.19	0.01	0.00	0.00	0.15	0.03
5520	4560	5520	23.73	0.01	0.00	0.00	0.15	0.03
5530	5500	5530	18.25	0.01	0.00	0.00	0.12	0.02
5535	5040	5530	-28.67	0.02	0.00	0.00	0.18	0.04
5540	5510	5540	16.69	0.01	0.00	0.00	0.11	0.02
5545	5530	5540	-17.92	0.00	0.00	0.00	0.11	0.02
5550	5520	5550	16.23	0.01	0.00	0.00	0.10	0.01
5555	5540	5550	-8.73	0.00	0.00	0.00	0.06	0.00
6000	6000	5235	230.04	0.12	0.00	0.00	0.65	0.27
7000	30	7000	1756.90	0.43	0.00	0.00	2.21	1.63
7005	7000	7005	1423.42	0.32	0.00	0.00	1.79	1.10
7010	7005	7010	1281.63	0.28	0.00	0.00	1.62	0.91



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7015	7010	7015	1162.31	0.44	0.00	0.00	1.47	0.76
7020	7015	7020	812.47	0.26	0.00	0.00	1.02	0.39
7025	7020	7025	715.45	0.20	0.00	0.00	0.90	0.31
7030	7025	7030	1467.72	0.09	0.00	0.00	1.85	1.16
7035	7030	7035	1188.89	0.68	0.00	0.00	1.50	0.79
7040	7035	7040	1152.64	0.38	0.00	0.00	1.45	0.74
7045	7040	7045	1151.10	0.43	0.00	0.00	1.45	0.74
7050	7045	7050	1099.41	0.19	0.00	0.00	1.39	0.68
7055	7050	7055	1032.21	0.16	0.00	0.00	1.30	0.61
7060	7055	7060	1093.60	0.34	0.00	0.00	1.38	0.68
7070	7060	7070	836.11	0.19	0.00	0.00	1.05	0.41
7075	8775	7070	-445.38	0.42	0.00	0.00	2.84	4.74
7080	7070	7080	390.73	0.45	0.00	0.00	1.11	0.72
7100	7000	7100	81.99	0.19	0.00	0.00	0.52	0.29
7105	7100	7005	66.60	0.13	0.00	0.00	0.43	0.20
7110	7010	7110	78.59	0.31	0.00	0.00	0.89	1.08
7120	7110	7120	32.62	0.13	0.00	0.00	0.37	0.21
7125	7015	7120	-20.54	0.01	0.00	0.00	0.13	0.02
7130	7120	7130	11.35	0.02	0.00	0.00	0.13	0.03
7135	7130	7020	68.76	0.24	0.00	0.00	0.78	0.85
7140	7140	7150	22.89	0.06	0.00	0.00	0.26	0.11
7145	7140	7110	-34.43	0.06	0.00	0.00	0.39	0.24
7150	7150	7160	-12.92	0.03	0.00	0.00	0.15	0.04
7155	7150	7120	17.54	0.00	0.00	0.00	0.11	0.02
7165	7160	7130	30.04	0.05	0.00	0.00	0.34	0.18
7167	7160	7210	-62.19	0.46	0.00	0.00	0.71	0.70
7200	7025	7200	-761.40	0.71	0.00	0.00	2.16	2.49
7210	7200	7210	-442.33	0.25	0.00	0.00	1.25	0.91
7215	7200	7210	-377.89	0.25	0.00	0.00	1.07	0.68
7220	7130	7200	-46.61	0.27	0.00	0.00	0.53	0.41
7300	7300	7310	-193.81	1.12	0.00	0.00	2.20	5.77
7310	7310	7000	-237.06	0.74	0.00	0.00	1.51	2.07
7320	7310	7320	33.63	0.06	0.00	0.00	0.38	0.23
7325	7320	7005	-193.97	0.48	0.00	0.00	1.24	1.42
7330	7320	7330	217.99	0.56	0.00	0.00	1.39	1.77
7340	7330	7340	209.96	0.86	0.00	0.00	1.34	1.65
7343	7340	7400	392.52	1.29	0.00	0.00	2.51	5.25
7345	7340	7300	-190.59	0.37	0.00	0.00	1.22	1.38
7350	7015	7350	341.54	1.12	0.00	0.00	2.18	4.06
7355	7350	7360	13.62	0.03	0.00	0.00	0.15	0.04
7360	7360	7020	-144.29	0.89	0.00	0.00	1.64	3.34
7365	7360	7380	145.80	0.93	0.00	0.00	1.65	3.41
7370	7370	7350	-318.30	0.93	0.00	0.00	2.03	3.56



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7373	7370	7410	293.94	0.92	0.00	0.00	1.88	3.08
7375	7370	7380	14.74	0.03	0.00	0.00	0.17	0.05
7385	7380	7415	148.42	1.05	0.00	0.00	1.68	3.52
7390	7420	7390	2.93	0.00	0.00	0.00	0.03	0.00
7400	7400	7405	54.18	0.33	0.00	0.00	0.61	0.54
7403	7400	7430	319.59	1.10	0.00	0.00	2.04	3.59
7405	7405	7410	35.43	0.18	0.00	0.00	0.40	0.25
7410	7410	7415	34.96	0.16	0.00	0.00	0.40	0.24
7413	7410	7440	260.28	0.76	0.00	0.00	1.66	2.46
7415	7415	7420	51.01	0.10	0.00	0.00	0.58	0.49
7418	7415	7445	111.98	0.63	0.00	0.00	1.27	2.09
7420	7420	7425	24.52	0.06	0.00	0.00	0.28	0.13
7425	7425	7450	14.14	0.02	0.00	0.00	0.16	0.05
7430	7430	7435	33.65	0.14	0.00	0.00	0.38	0.23
7433	7430	7455	267.19	0.76	0.00	0.00	1.71	2.58
7435	7435	7440	14.90	0.04	0.00	0.00	0.17	0.05
7440	7440	7445	14.35	0.03	0.00	0.00	0.16	0.05
7443	7440	7465	229.77	0.61	0.00	0.00	1.47	1.95
7448	7445	7470	103.25	0.56	0.00	0.00	1.17	1.80
7455	7455	7460	13.04	0.02	0.00	0.00	0.15	0.04
7458	7455	7480	235.40	0.64	0.00	0.00	1.50	2.04
7459	7495	7520	84.22	0.25	0.00	0.00	0.96	1.23
7460	7460	7465	-5.71	0.01	0.00	0.00	0.06	0.01
7465	7465	7470	-11.12	0.02	0.00	0.00	0.13	0.03
7468	7465	7490	204.69	0.48	0.00	0.00	1.31	1.57
7473	7470	7495	69.15	0.26	0.00	0.00	0.78	0.86
7480	7480	7485	-10.44	0.02	0.00	0.00	0.12	0.03
7483	7480	7505	224.45	0.37	0.00	0.00	1.43	1.87
7485	7485	7490	-29.19	0.13	0.00	0.00	0.33	0.17
7490	7490	7495	-42.50	0.24	0.00	0.00	0.48	0.35
7493	7490	7515	179.29	0.24	0.00	0.00	1.14	1.23
7495	7495	7500	-89.53	0.92	0.00	0.00	1.02	1.38
7500	7500	7475	0.58	0.00	0.00	0.00	0.01	0.00
7503	7500	7080	-106.94	0.30	0.00	0.00	1.21	1.92
7504	7080	7525	280.66	0.58	0.00	0.00	3.18	11.46
7505	7505	7510	27.11	0.02	0.00	0.00	0.17	0.04
7508	7505	7550	190.60	0.55	0.00	0.00	1.22	1.38
7510	7510	7515	-103.95	0.30	0.00	0.00	0.66	0.45
7513	7510	7530	117.60	0.48	0.00	0.00	1.33	2.29
7515	7515	7520	-88.36	0.23	0.00	0.00	0.56	0.33
7518	7515	7535	150.24	0.77	0.00	0.00	1.70	3.60
7520	7520	7525	-186.52	0.89	0.00	0.00	1.19	1.32
7523	7520	7540	168.91	0.97	0.00	0.00	1.92	4.48





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7528	7525	7545	84.82	1.80	0.00	0.00	2.17	9.00
7530	7530	7535	-6.32	0.01	0.00	0.00	0.07	0.01
7533	7530	7555	117.19	0.42	0.00	0.00	1.33	2.27
7535	7535	7540	-14.69	0.03	0.00	0.00	0.17	0.05
7538	7535	7565	145.14	1.22	0.00	0.00	1.65	3.38
7540	7540	7545	-20.76	0.06	0.00	0.00	0.24	0.09
7543	7540	7570	161.52	1.45	0.00	0.00	1.83	4.12
7548	7545	7575	57.33	1.59	0.00	0.00	1.46	4.36
7550	7550	7555	55.63	0.38	0.00	0.00	0.63	0.57
7553	7550	7573	121.50	0.22	0.00	0.00	0.78	0.60
7558	7555	7560	159.36	0.72	0.00	0.00	1.81	4.02
7560	7560	7565	23.30	0.08	0.00	0.00	0.26	0.11
7563	7560	7577	122.59	0.11	0.00	0.00	0.78	0.61
7565	7565	7570	38.55	0.20	0.00	0.00	0.44	0.29
7568	7565	7590	102.96	0.67	0.00	0.00	1.17	1.79
7570	7570	7575	23.57	0.08	0.00	0.00	0.27	0.12
7572	7573	7577	198.41	0.99	0.00	0.00	1.27	1.49
7573	7570	7595	149.58	1.32	0.00	0.00	1.70	3.57
7576	7573	7580	-90.37	0.07	0.00	0.00	0.58	0.35
7577	7577	7585	307.54	0.62	0.00	0.00	1.96	3.34
7578	7575	7600	67.43	2.12	0.00	0.00	1.72	5.89
7582	7580	80	-100.61	0.05	0.00	0.00	0.64	0.42
7583	7580	7605	10.24	0.00	0.00	0.00	0.12	0.02
7585	7585	7590	7.68	0.01	0.00	0.00	0.09	0.01
7588	7585	7610	286.40	1.01	0.00	0.00	1.83	2.93
7590	7590	7595	85.16	0.86	0.00	0.00	0.97	1.26
7595	7595	7600	86.60	0.87	0.00	0.00	0.98	1.30
7598	7595	7620	122.66	0.86	0.00	0.00	1.39	2.47
7603	7600	7625	141.29	0.27	0.00	0.00	0.90	0.79
7610	7610	7615	125.38	0.42	0.00	0.00	0.80	0.63
7613	7610	10000	148.99	0.28	0.00	0.00	0.95	0.87
7615	7615	7620	101.34	0.30	0.00	0.00	0.65	0.43
7620	7620	7625	100.19	0.28	0.00	0.00	0.64	0.42
7623	7620	10020	99.44	0.53	0.00	0.00	1.13	1.68
7628	7625	10030	229.13	0.64	0.00	0.00	1.46	1.94
7700	510	7700	81.73	0.79	0.00	0.00	0.93	1.17
7703	7700	7720	1116.38	0.44	0.00	0.00	1.78	1.25
7705	7700	7705	70.66	0.60	0.00	0.00	0.80	0.89
7710	7705	7710	47.73	0.30	0.00	0.00	0.54	0.43
7713	7710	7730	184.78	0.47	0.00	0.00	1.18	1.30
7715	7710	7715	10.42	0.02	0.00	0.00	0.12	0.03
7718	7715	7735	31.05	0.51	0.00	0.00	0.79	1.40
7720	505	7720	44.25	0.26	0.00	0.00	0.50	0.37



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7723	7720	7740	1052.40	0.40	0.00	0.00	1.68	1.12
7725	7720	7725	73.46	0.63	0.00	0.00	0.83	0.96
7730	7725	7730	47.84	0.30	0.00	0.00	0.54	0.43
7733	7730	7750	191.65	0.50	0.00	0.00	1.22	1.39
7735	7730	7735	20.64	0.06	0.00	0.00	0.23	0.09
7738	7735	7755	41.21	0.83	0.00	0.00	1.05	2.36
7740	500	7740	-60.32	0.04	0.00	0.00	0.25	0.06
7743	7740	7760	788.21	0.92	0.00	0.00	2.24	2.65
7745	7740	7745	183.83	0.29	0.00	0.00	0.75	0.43
7750	7745	7750	164.31	0.73	0.00	0.00	1.05	1.05
7753	7750	7770	207.41	0.57	0.00	0.00	1.32	1.61
7755	7750	7755	121.81	0.39	0.00	0.00	0.78	0.60
7758	7755	7775	52.26	0.18	0.00	0.00	0.59	0.51
7760	495	7760	10.19	0.02	0.00	0.00	0.12	0.02
7763	7760	7780	699.58	0.79	0.00	0.00	1.98	2.13
7765	7760	7765	66.22	0.53	0.00	0.00	0.75	0.79
7770	7765	7770	31.32	0.14	0.00	0.00	0.36	0.20
7773	7770	7790	202.30	0.55	0.00	0.00	1.29	1.54
7775	7770	7775	2.05	0.00	0.00	0.00	0.02	0.00
7778	7775	7795	39.16	0.79	0.00	0.00	1.00	2.15
7780	490	7780	-7.60	0.01	0.00	0.00	0.09	0.01
7782	7780	7805	603.97	0.28	0.00	0.00	1.71	1.62
7783	7805	7800	560.88	0.28	0.00	0.00	1.59	1.41
7785	7780	7785	55.70	0.38	0.00	0.00	0.63	0.57
7790	7785	7790	18.49	0.05	0.00	0.00	0.21	0.07
7793	7790	7820	141.04	0.30	0.00	0.00	0.90	0.79
7795	7790	7795	43.19	0.23	0.00	0.00	0.49	0.36
7798	7795	7825	69.38	0.32	0.00	0.00	0.79	0.86
7800	485	7800	-29.37	0.12	0.00	0.00	0.33	0.18
7803	7800	7900	526.15	0.24	0.00	0.00	1.49	1.26
7805	7805	7810	41.16	0.21	0.00	0.00	0.47	0.33
7810	7800	7815	-0.26	0.00	0.00	0.00	0.01	0.00
7813	7810	7815	39.24	0.06	0.00	0.00	0.45	0.30
7815	7815	7820	36.57	0.18	0.00	0.00	0.41	0.26
7820	7820	7825	15.73	0.25	0.00	0.00	0.40	0.40
7823	7820	7910	155.63	0.18	0.00	0.00	0.99	0.95
7828	7825	7915	81.26	0.01	0.00	0.00	0.23	0.04
7830	465	7830	-8.19	0.01	0.00	0.00	0.09	0.02
7833	7830	7940	157.14	0.35	0.00	0.00	1.00	0.96
7835	7830	7835	-7.07	0.01	0.00	0.00	0.08	0.01
7840	7835	7840	-10.19	0.02	0.00	0.00	0.12	0.02
7843	7840	7950	106.84	0.17	0.00	0.00	0.68	0.47
7845	7840	7845	-7.11	0.01	0.00	0.00	0.08	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7848	7845	7955	281.94	0.15	0.00	0.00	0.80	0.40
7850	705	7850	-85.83	0.22	0.00	0.00	0.55	0.31
7855	7850	7855	58.07	0.10	0.00	0.00	0.37	0.15
7860	7855	7860	53.07	0.03	0.00	0.00	0.34	0.13
7862	7860	7880	182.70	0.62	0.00	0.00	2.07	5.18
7865	7860	7865	-134.44	0.35	0.00	0.00	0.86	0.72
7870	7865	7870	8.08	0.00	0.00	0.00	0.05	0.00
7875	7875	7880	-91.35	0.24	0.00	0.00	1.04	1.43
7880	7880	7885	91.35	0.52	0.00	0.00	1.04	1.43
7890	7890	7895	-91.35	0.66	0.00	0.00	1.04	1.43
7898	8000	7895	93.76	0.12	0.00	0.00	0.60	0.37
7900	480	7900	-35.33	0.01	0.00	0.00	0.10	0.01
7903	7900	7920	330.54	0.21	0.00	0.00	0.94	0.53
7905	7900	7905	137.39	0.07	0.00	0.00	0.39	0.10
7910	7905	7910	117.39	0.05	0.00	0.00	0.33	0.08
7913	7910	7930	102.19	0.16	0.00	0.00	0.65	0.43
7915	7910	7915	151.75	0.08	0.00	0.00	0.43	0.13
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	229.12	0.10	0.00	0.00	0.65	0.27
7920	470	7920	-45.43	0.07	0.00	0.00	0.29	0.10
7923	7920	7830	167.88	0.22	0.00	0.00	1.07	1.09
7925	7920	7925	107.38	0.04	0.00	0.00	0.30	0.07
7930	7925	7930	97.77	0.04	0.00	0.00	0.28	0.06
7933	7930	7840	117.13	0.11	0.00	0.00	0.75	0.56
7935	7930	7935	73.20	0.02	0.00	0.00	0.21	0.03
7937	7845	7937	0.53	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	295.11	0.08	0.00	0.00	0.84	0.43
7940	700	7940	-140.99	0.08	0.00	0.00	0.40	0.11
7943	7940	7850	152.75	0.33	0.00	0.00	0.97	0.92
7945	7940	7945	-157.29	0.09	0.00	0.00	0.45	0.13
7950	7945	7950	-177.96	0.12	0.00	0.00	0.50	0.17
7953	7950	7865	147.32	0.31	0.00	0.00	0.94	0.86
7955	7950	7955	-234.31	0.03	0.00	0.00	0.30	0.04
8000	710	8000	70.02	0.60	0.00	0.00	0.79	0.88
8003	8000	8020	-60.48	0.02	0.00	0.00	0.39	0.16
8005	8000	8005	23.19	0.06	0.00	0.00	0.26	0.11
8010	8005	8010	7.42	0.01	0.00	0.00	0.08	0.01
8013	8010	8030	-9.55	0.00	0.00	0.00	0.11	0.02
8015	8010	8015	3.99	0.00	0.00	0.00	0.05	0.00
8020	715	8020	59.70	0.44	0.00	0.00	0.68	0.65
8023	8020	8040	-40.40	0.03	0.00	0.00	0.26	0.08
8025	8020	8025	26.06	0.08	0.00	0.00	0.30	0.14
8030	8025	8030	9.66	0.02	0.00	0.00	0.11	0.02





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8033	8030	8050	-32.10	0.07	0.00	0.00	0.36	0.21
8035	8030	8035	11.30	0.02	0.00	0.00	0.13	0.03
8040	720	8040	223.76	0.17	0.00	0.00	0.63	0.26
8043	8040	8060	67.27	0.07	0.00	0.00	0.43	0.20
8045	8040	8045	90.99	0.03	0.00	0.00	0.26	0.05
8050	8045	8050	65.89	0.02	0.00	0.00	0.19	0.03
8053	8050	8070	64.73	0.25	0.00	0.00	0.73	0.76
8055	8050	8055	-52.10	0.01	0.00	0.00	0.15	0.02
8060	725	8060	32.94	0.15	0.00	0.00	0.37	0.22
8065	8060	8065	63.86	0.49	0.00	0.00	0.72	0.74
8070	8065	8070	-45.49	0.26	0.00	0.00	0.52	0.39
8075	8075	8060	-16.15	0.02	0.00	0.00	0.18	0.06
8080	730	8080	16.64	0.01	0.00	0.00	0.11	0.02
8085	8080	8085	8.32	0.02	0.00	0.00	0.21	0.12
8090	8065	8090	94.93	0.30	0.00	0.00	0.61	0.38
8095	8090	8095	-11.61	0.00	0.00	0.00	0.07	0.01
8100	750	8100	109.07	0.34	0.00	0.00	0.70	0.49
8105	8100	8105	109.07	0.17	0.00	0.00	0.70	0.49
8110	8105	8110	54.89	0.04	0.00	0.00	0.35	0.14
8115	8105	8115	42.55	0.05	0.00	0.00	0.27	0.09
8117	8115	8120	-2.72	0.00	0.00	0.00	0.02	0.00
8120	8110	8120	16.76	0.01	0.00	0.00	0.11	0.02
8125	8115	8125	2.40	0.00	0.00	0.00	0.02	0.00
8130	8120	8130	2.40	0.00	0.00	0.00	0.02	0.00
8135	8095	8135	-30.41	0.02	0.00	0.00	0.19	0.05
8137	8135	8115	-35.61	0.02	0.00	0.00	0.23	0.06
8140	8095	8140	1.01	0.00	0.00	0.00	0.01	0.00
8145	8110	8145	30.87	0.02	0.00	0.00	0.20	0.05
8200	8055	8200	-60.75	0.06	0.00	0.00	0.39	0.17
8205	8200	8205	0.91	0.00	0.00	0.00	0.01	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-62.62	0.09	0.00	0.00	0.40	0.18
8220	8215	8220	-47.55	0.28	0.00	0.00	0.54	0.43
8225	8220	8225	-69.66	0.48	0.00	0.00	0.79	0.87
8227	8225	8240	183.41	0.08	0.00	0.00	0.52	0.18
8230	8215	8230	-28.92	0.02	0.00	0.00	0.18	0.04
8235	8230	8235	-42.95	0.24	0.00	0.00	0.49	0.35
8240	8235	8240	-65.06	0.43	0.00	0.00	0.74	0.76
8247	8240	8265	96.22	0.02	0.00	0.00	0.27	0.05
8250	8230	8250	-8.09	0.00	0.00	0.00	0.05	0.00
8255	8250	8255	-19.15	0.05	0.00	0.00	0.22	0.08
8260	8255	8260	-39.44	0.02	0.00	0.00	0.45	0.30
8265	8260	8265	-77.95	0.57	0.00	0.00	0.88	1.07





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8270	8255	8270	9.23	0.00	0.00	0.00	0.06	0.01
8275	8270	8275	3.46	0.00	0.00	0.00	0.02	0.00
8278	8275	8290	-8.73	0.00	0.00	0.00	0.06	0.00
8280	8275	8280	6.42	0.00	0.00	0.00	0.04	0.00
8285	8280	8285	0.65	0.00	0.00	0.00	0.00	0.00
8290	8285	8290	-8.25	0.00	0.00	0.00	0.05	0.00
8295	8290	8295	-25.87	0.01	0.00	0.00	0.17	0.03
8297	8295	8260	-27.46	0.01	0.00	0.00	0.18	0.04
8300	10200	8300	158.32	0.59	0.00	0.00	1.01	0.98
8303	10200	8300	74.93	0.59	0.00	0.00	0.85	0.99
8305	8300	8310	229.07	0.19	0.00	0.00	0.65	0.27
8310	8310	8320	273.07	0.24	0.00	0.00	0.77	0.37
8325	8320	8225	272.21	0.09	0.00	0.00	0.77	0.37
8330	8310	8330	-44.00	0.05	0.00	0.00	0.28	0.09
8340	8330	8340	-44.00	0.07	0.00	0.00	0.28	0.09
8350	8340	8350	4.81	0.00	0.00	0.00	0.05	0.01
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-48.81	0.27	0.00	0.00	0.55	0.45
8390	8380	10190	-56.02	0.39	0.00	0.00	0.64	0.58
8400	10070	8400	-9.42	0.00	0.00	0.00	0.06	0.01
8410	8400	8410	75.18	0.10	0.00	0.00	0.48	0.25
8420	8410	8420	60.86	0.02	0.00	0.00	0.39	0.17
8425	8420	10080	69.51	0.01	0.00	0.00	0.20	0.03
8430	8410	8430	13.74	0.01	0.00	0.00	0.09	0.01
8440	8430	8440	13.16	0.00	0.00	0.00	0.08	0.01
8450	8440	8450	9.61	0.01	0.00	0.00	0.11	0.02
8455	8450	8420	8.65	0.00	0.00	0.00	0.02	0.00
8460	8440	8460	2.50	0.00	0.00	0.00	0.06	0.01
8470	8460	8470	1.25	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	327.72	0.20	0.00	0.00	0.93	0.52
8510	8500	8510	326.52	0.19	0.00	0.00	0.93	0.52
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	262.66	0.13	0.00	0.00	0.75	0.35
8525	8520	8525	7.40	0.00	0.00	0.00	0.08	0.01
8530	8520	8530	254.24	0.07	0.00	0.00	0.72	0.33
8540	8530	8540	254.00	0.06	0.00	0.00	0.72	0.33
8550	8540	8550	250.68	0.12	0.00	0.00	0.71	0.32
8555	8550	10200	178.21	0.17	0.00	0.00	0.73	0.41
8560	8550	8560	24.57	0.02	0.00	0.00	0.16	0.03
8600	10100	8600	71.96	0.35	0.00	0.00	0.82	0.92
8605	8600	8610	33.44	0.08	0.00	0.00	0.38	0.22
8610	10110	8610	60.40	0.24	0.00	0.00	0.69	0.67



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8615	8610	10140	32.30	0.15	0.00	0.00	0.37	0.21
8620	8600	8620	31.36	0.07	0.00	0.00	0.36	0.20
8622	8620	8510	-62.13	0.25	0.00	0.00	0.70	0.70
8625	8620	8630	40.80	0.11	0.00	0.00	0.46	0.32
8630	8610	8630	38.41	0.11	0.00	0.00	0.44	0.29
8635	8630	10160	27.45	0.11	0.00	0.00	0.31	0.15
8640	8620	8640	44.85	0.14	0.00	0.00	0.51	0.38
8645	8640	8650	18.03	0.03	0.00	0.00	0.20	0.07
8650	8630	8650	26.52	0.05	0.00	0.00	0.30	0.15
8655	8650	10170	21.92	0.07	0.00	0.00	0.25	0.10
8660	8640	8660	25.14	0.01	0.00	0.00	0.16	0.03
8665	8660	8670	39.83	0.03	0.00	0.00	0.25	0.08
8670	8650	8670	12.72	0.01	0.00	0.00	0.14	0.04
8675	8670	10180	22.13	0.07	0.00	0.00	0.25	0.10
8680	8660	8680	-15.84	0.02	0.00	0.00	0.18	0.06
8685	8680	8550	-23.05	0.01	0.00	0.00	0.15	0.03
8690	8670	8690	26.09	0.10	0.00	0.00	0.30	0.14
8692	8690	10200	19.40	0.01	0.00	0.00	0.08	0.01
8695	8690	10190	6.69	0.00	0.00	0.00	0.03	0.00
8700	8400	8700	-92.58	0.19	0.00	0.00	0.59	0.36
8705	8700	7755	-89.85	0.02	0.00	0.00	0.57	0.34
8710	8700	8710	-10.81	0.07	0.00	0.00	0.28	0.20
8715	8710	10060	-22.39	0.07	0.00	0.00	0.25	0.11
8720	10060	8720	5.10	0.00	0.00	0.00	0.06	0.01
8725	8725	10050	-9.66	0.01	0.00	0.00	0.11	0.02
8730	10050	8730	5.91	0.00	0.00	0.00	0.07	0.01
8735	10040	8735	11.88	0.02	0.00	0.00	0.13	0.03
8740	10040	8740	-180.60	0.30	0.00	0.00	1.15	1.25
8745	8740	8745	8.41	0.01	0.00	0.00	0.10	0.02
8750	8740	8750	-197.43	0.18	0.00	0.00	1.26	1.47
8755	8750	8755	216.36	3.94	0.00	0.00	2.45	7.08
8760	8750	8760	-422.11	3.23	0.00	0.00	2.69	6.01
8765	8760	8765	3.08	0.00	0.00	0.00	0.03	0.00
8770	8760	8770	2.40	0.00	0.00	0.00	0.03	0.00
8775	8760	8775	-438.17	3.85	0.00	0.00	2.80	6.44
8800	10100	8800	0.96	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	10.06	0.00	0.00	0.00	0.11	0.02
8810	8810	8900	17.29	0.31	0.00	0.00	0.44	0.47
8815	8810	8820	-18.58	0.03	0.00	0.00	0.21	0.08
8820	8820	8910	56.52	0.39	0.00	0.00	0.64	0.59
8825	8820	8830	-88.56	0.47	0.00	0.00	1.00	1.35
8830	8830	8920	88.93	0.90	0.00	0.00	1.01	1.36
8835	8830	8840	-181.96	2.09	0.00	0.00	2.06	5.14



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8840	8840	8845	1.59	0.00	0.00	0.00	0.02	0.00
8845	8840	8850	-185.09	3.65	0.00	0.00	2.10	5.30
8850	8850	8970	-187.11	3.67	0.00	0.00	2.12	5.41
8900	8900	10120	-213.90	0.05	0.00	0.00	0.61	0.24
8910	8900	8910	163.72	0.05	0.00	0.00	0.46	0.14
8920	8910	8920	145.74	0.04	0.00	0.00	0.41	0.12
8930	8920	8930	155.28	0.05	0.00	0.00	0.44	0.13
8940	8930	8940	120.35	0.03	0.00	0.00	0.34	0.08
8950	8940	8950	119.82	0.03	0.00	0.00	0.34	0.08
8960	8950	8960	119.34	0.05	0.00	0.00	0.34	0.08
8970	8970	8975	5.19	0.00	0.00	0.00	0.01	0.00
8980	8970	8980	-194.22	0.09	0.00	0.00	0.55	0.20
8990	8980	7060	-257.50	0.14	0.00	0.00	0.73	0.33
9000	10190	9000	119.74	0.07	0.00	0.00	0.34	0.08
9010	9000	9010	115.50	0.04	0.00	0.00	0.33	0.08
9020	9010	9020	115.31	0.06	0.00	0.00	0.33	0.08
9030	9020	9030	115.31	0.04	0.00	0.00	0.33	0.08
9040	9040	9030	-114.11	0.06	0.00	0.00	0.32	0.07
9050	9040	9050	114.11	0.03	0.00	0.00	0.32	0.07
9060	9050	9060	62.09	0.00	0.00	0.00	0.18	0.02
9070	9060	9070	27.70	0.00	0.00	0.00	0.08	0.01
9080	9070	9080	-12.68	0.00	0.00	0.00	0.04	0.00
9090	9080	9090	-52.91	0.01	0.00	0.00	0.15	0.02
9100	9090	9100	-69.48	0.01	0.00	0.00	0.20	0.03
9110	9100	9110	-94.84	0.02	0.00	0.00	0.27	0.05
9115	9110	9115	4.81	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-94.85	0.02	0.00	0.00	0.27	0.05
9130	9120	9130	-74.50	0.03	0.00	0.00	0.21	0.03
9140	9130	9140	-40.70	0.01	0.00	0.00	0.12	0.01
9150	9140	9150	-42.47	0.01	0.00	0.00	0.12	0.01
9160	9150	9160	-81.12	0.02	0.00	0.00	0.23	0.04
9170	9170	9160	81.12	0.01	0.00	0.00	0.23	0.04
9175	9170	9175	15.02	0.01	0.00	0.00	0.10	0.01
9180	9180	9170	116.60	0.05	0.00	0.00	0.33	0.08
9190	9190	9180	116.60	0.05	0.00	0.00	0.33	0.08
9195	8960	9190	116.60	0.01	0.00	0.00	0.33	0.08
9200	7055	9200	-41.07	0.03	0.00	0.00	0.26	0.08
9210	9200	9210	-49.58	0.05	0.00	0.00	0.32	0.11
9215	9210	9240	-58.09	0.04	0.00	0.00	0.37	0.15
9220	7050	9220	-9.28	0.00	0.00	0.00	0.06	0.01
9230	9220	9230	-16.68	0.00	0.00	0.00	0.11	0.02
9235	9230	9260	-89.78	0.09	0.00	0.00	0.57	0.34
9240	9230	9240	62.13	0.04	0.00	0.00	0.40	0.17





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9250	7045	9250	55.33	0.06	0.00	0.00	0.35	0.14
9260	9250	9260	47.54	0.03	0.00	0.00	0.30	0.11
9265	9260	9280	-53.58	0.03	0.00	0.00	0.34	0.13
9270	7045	9860	-3.64	0.00	0.00	0.00	0.02	0.00
9275	9270	9860	-43.47	0.04	0.00	0.00	0.28	0.09
9280	9270	9280	36.02	0.02	0.00	0.00	0.23	0.06
9300	7030	9300	125.39	0.34	0.00	0.00	0.80	0.63
9310	9300	9310	125.39	0.20	0.00	0.00	0.80	0.63
9315	9330	9310	-125.39	0.18	0.00	0.00	0.80	0.63
9320	7030	9320	131.89	0.35	0.00	0.00	0.84	0.70
9330	9320	9330	127.56	0.36	0.00	0.00	0.81	0.66
9333	9330	9333	230.07	0.48	0.00	0.00	1.47	1.95
9335	9333	9337	88.04	0.15	0.00	0.00	0.56	0.33
9337	9370	9337	-114.01	0.15	0.00	0.00	0.73	0.53
9340	9280	9340	-27.51	0.00	0.00	0.00	0.08	0.01
9345	9340	9345	-11.43	0.00	0.00	0.00	0.07	0.01
9348	9345	9355	-16.91	0.00	0.00	0.00	0.11	0.02
9350	9340	9350	-24.50	0.01	0.00	0.00	0.16	0.03
9355	9350	9355	7.02	0.00	0.00	0.00	0.04	0.00
9360	9350	9360	-41.28	0.02	0.00	0.00	0.26	0.08
9365	9355	9365	-17.68	0.00	0.00	0.00	0.11	0.02
9368	9365	9385	-19.85	0.01	0.00	0.00	0.13	0.02
9370	9360	9370	-69.84	0.03	0.00	0.00	0.45	0.21
9375	9360	9375	17.41	0.01	0.00	0.00	0.11	0.02
9380	9370	9380	37.10	0.01	0.00	0.00	0.24	0.07
9385	9375	9385	22.11	0.00	0.00	0.00	0.14	0.03
9387	9375	9390	-13.83	0.00	0.00	0.00	0.09	0.01
9390	9380	9390	28.88	0.02	0.00	0.00	0.18	0.04
9395	9390	9395	5.48	0.00	0.00	0.00	0.03	0.00
9400	7210	9400	-893.80	4.20	0.00	0.00	2.54	3.35
9410	9400	9410	62.74	0.01	0.00	0.00	0.18	0.02
9415	9410	9415	8.27	0.00	0.00	0.00	0.05	0.00
9420	9410	9420	57.94	0.01	0.00	0.00	0.16	0.02
9425	9415	9425	5.87	0.00	0.00	0.00	0.04	0.00
9430	9420	9430	45.00	0.01	0.00	0.00	0.13	0.01
9435	9425	9410	3.46	0.00	0.00	0.00	0.02	0.00
9440	9430	9440	45.00	0.01	0.00	0.00	0.13	0.01
9460	9400	9460	-974.15	0.21	0.00	0.00	1.23	0.55
9470	9460	9470	-979.92	0.16	0.00	0.00	1.24	0.55
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00
9490	9440	9490	10.39	0.00	0.00	0.00	0.07	0.01
9500	8930	9500	27.24	0.10	0.00	0.00	0.31	0.15
9503	9500	9510	-14.67	0.02	0.00	0.00	0.17	0.05



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9505	9500	9505	29.89	0.12	0.00	0.00	0.34	0.18
9507	9175	9505	7.28	0.00	0.00	0.00	0.05	0.00
9510	8920	9510	66.99	0.13	0.00	0.00	0.43	0.20
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	33.52	0.15	0.00	0.00	0.38	0.22
9520	8910	9520	46.81	0.28	0.00	0.00	0.53	0.42
9525	9520	9525	25.51	0.09	0.00	0.00	0.29	0.14
9530	8900	9530	52.18	0.34	0.00	0.00	0.59	0.51
9535	9530	9535	31.65	0.13	0.00	0.00	0.36	0.20
9540	10130	9540	55.38	0.40	0.00	0.00	0.63	0.57
9545	9540	9545	36.24	0.17	0.00	0.00	0.41	0.26
9550	10150	9550	68.68	0.25	0.00	0.00	0.78	0.85
9555	9550	9555	68.68	0.34	0.00	0.00	0.78	0.85
9557	9555	9570	76.44	0.05	0.00	0.00	0.49	0.25
9560	9555	9560	-19.44	0.05	0.00	0.00	0.22	0.08
9565	10160	9565	263.22	0.75	0.00	0.00	1.68	2.51
9570	9565	9570	-92.57	0.15	0.00	0.00	0.59	0.36
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.34	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-16.13	0.00	0.00	0.00	0.10	0.01
9590	9590	9595	7.45	0.00	0.00	0.00	0.05	0.00
9600	9505	9600	32.85	0.01	0.00	0.00	0.21	0.05
9605	9600	9515	8.03	0.00	0.00	0.00	0.05	0.00
9610	9515	9605	29.34	0.04	0.00	0.00	0.33	0.17
9615	9605	9525	11.65	0.00	0.00	0.00	0.13	0.03
9620	9525	9610	30.43	0.04	0.00	0.00	0.35	0.19
9625	9610	9535	22.14	0.02	0.00	0.00	0.25	0.10
9630	9535	9545	35.93	0.10	0.00	0.00	0.41	0.25
9635	9545	9560	48.36	0.04	0.00	0.00	0.31	0.11
9640	9560	9640	22.22	0.01	0.00	0.00	0.14	0.03
9645	9640	9585	25.80	0.09	0.00	0.00	0.29	0.14
9650	9640	9650	0.37	0.00	0.00	0.00	0.00	0.00
9655	9650	9590	13.80	0.01	0.00	0.00	0.09	0.01
9660	9595	9660	5.77	0.01	0.00	0.00	0.07	0.01
9665	9650	9670	-23.87	0.08	0.00	0.00	0.27	0.12
9670	9670	9675	3.17	0.00	0.00	0.00	0.04	0.00
9673	9670	9673	-31.13	0.01	0.00	0.00	0.20	0.05
9675	9680	9673	-20.89	0.00	0.00	0.00	0.13	0.02
9678	9673	9050	-52.02	0.08	0.00	0.00	0.33	0.12
9680	9640	9680	-24.56	0.08	0.00	0.00	0.28	0.13
9683	9680	9060	-24.54	0.08	0.00	0.00	0.28	0.13
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	20.46	0.01	0.00	0.00	0.13	0.02
9710	9700	9710	18.39	0.01	0.00	0.00	0.12	0.02
9720	9710	9720	18.39	0.01	0.00	0.00	0.12	0.02
9725	9720	9130	38.28	0.01	0.00	0.00	0.11	0.01
9730	9150	9730	29.03	0.00	0.00	0.00	0.08	0.01
9735	9730	9720	26.86	0.00	0.00	0.00	0.08	0.01
9740	9600	9740	24.82	0.02	0.00	0.00	0.16	0.03
9745	9740	9120	24.82	0.02	0.00	0.00	0.16	0.03
9750	9605	9750	11.24	0.02	0.00	0.00	0.13	0.03
9755	9750	9110	4.80	0.00	0.00	0.00	0.05	0.01
9760	9610	9760	4.25	0.00	0.00	0.00	0.03	0.00
9765	9760	9100	-13.29	0.01	0.00	0.00	0.08	0.01
9770	9535	9770	1.08	0.00	0.00	0.00	0.01	0.00
9775	9770	9090	-11.04	0.02	0.00	0.00	0.13	0.03
9780	9545	9780	-2.73	0.00	0.00	0.00	0.03	0.00
9785	9780	9080	-29.41	0.11	0.00	0.00	0.33	0.18
9790	9560	9790	-16.68	0.04	0.00	0.00	0.19	0.06
9795	9790	9070	-29.56	0.11	0.00	0.00	0.34	0.18
9800	9333	9800	138.37	0.11	0.00	0.00	0.88	0.76
9810	9800	9810	36.64	0.03	0.00	0.00	0.23	0.07
9815	9810	9337	31.31	0.01	0.00	0.00	0.20	0.05
9820	9800	9820	98.07	0.11	0.00	0.00	0.63	0.40
9830	9820	9830	33.87	0.03	0.00	0.00	0.22	0.06
9835	9830	9850	22.81	0.01	0.00	0.00	0.15	0.03
9840	9820	9840	54.59	0.04	0.00	0.00	0.35	0.14
9850	9840	9850	-11.75	0.00	0.00	0.00	0.08	0.01
9860	9840	9860	56.73	0.04	0.00	0.00	0.36	0.15
9870	7050	9870	59.46	0.09	0.00	0.00	0.38	0.16
9880	9870	9880	48.40	0.03	0.00	0.00	0.31	0.11
9890	9880	7055	37.34	0.04	0.00	0.00	0.24	0.07
9900	9140	9900	0.00	0.00	0.00	0.00	0.00	0.00
9910	9900	9910	0.00	0.00	0.00	0.00	0.00	0.00
9920	9910	9920	0.00	0.00	0.00	0.00	0.00	0.00
10003	10000	7700	1129.35	0.46	0.00	0.00	1.80	1.27
10005	100	10000	2134.89	1.63	0.00	0.00	2.69	2.33
10010	10000	10010	1136.49	0.48	0.00	0.00	1.43	0.73
10020	10010	10020	1112.45	0.49	0.00	0.00	1.40	0.70
10023	10020	7710	170.18	0.39	0.00	0.00	1.09	1.12
10030	10020	10030	1017.68	0.39	0.00	0.00	1.28	0.59
10033	10030	7715	32.65	0.02	0.00	0.00	0.21	0.05
10040	10030	10040	1192.72	0.54	0.00	0.00	1.50	0.79
10050	10040	10050	1349.91	0.37	0.00	0.00	1.70	1.00





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
10060	10050	10060	1318.75	0.34	0.00	0.00	1.66	0.96
10070	10060	10070	1279.24	0.32	0.00	0.00	1.61	0.90
10080	10070	10080	1288.66	0.13	0.00	0.00	1.62	0.92
10090	10080	10090	1350.95	0.37	0.00	0.00	1.70	1.00
10100	10090	10100	1022.81	0.22	0.00	0.00	1.29	0.60
10110	10100	10110	940.98	0.18	0.00	0.00	1.19	0.51
10115	10110	10115	871.50	0.04	0.00	0.00	1.10	0.44
10120	10115	10120	856.39	0.27	0.00	0.00	1.08	0.43
10130	10120	10130	634.46	0.05	0.00	0.00	0.80	0.25
10140	10130	10140	570.62	0.04	0.00	0.00	0.72	0.20
10150	10140	10150	586.95	0.04	0.00	0.00	0.74	0.21
10160	10150	10160	518.27	0.03	0.00	0.00	0.65	0.17
10170	10160	10170	236.83	0.01	0.00	0.00	0.30	0.04
10180	10170	10180	249.28	0.02	0.00	0.00	0.31	0.04
10185	10180	10185	268.67	0.00	0.00	0.00	0.34	0.05
10190	10185	10190	234.63	0.03	0.00	0.00	0.30	0.04
10195	10190	10195	61.21	0.00	0.00	0.00	0.08	0.00
10200	10195	10200	61.21	0.00	0.00	0.00	0.08	0.00
10210	10200	10210	-2.77	0.00	0.00	0.00	0.00	0.00
10220	10210	7955	-38.97	0.00	0.00	0.00	0.05	0.00
14100	4100	14100	26.15	0.01	0.00	0.00	0.17	0.03
14105	3080	14110	61.54	0.06	0.00	0.00	0.39	0.17
14110	14100	14110	16.53	0.01	0.00	0.00	0.11	0.01
14113	14110	14115	4.81	0.00	0.00	0.00	0.03	0.00
14115	14110	14130	58.84	0.04	0.00	0.00	0.38	0.16
14120	14120	4115	-26.42	0.01	0.00	0.00	0.17	0.04
14130	14120	14130	16.80	0.01	0.00	0.00	0.11	0.02
14133	14130	14135	4.81	0.00	0.00	0.00	0.03	0.00
14135	14130	14150	56.41	0.04	0.00	0.00	0.36	0.14
14140	4130	14140	39.90	0.01	0.00	0.00	0.25	0.08
14150	14150	14140	2.43	0.00	0.00	0.00	0.02	0.00
14155	14150	14170	47.97	0.03	0.00	0.00	0.31	0.11
14160	14140	14160	33.91	0.01	0.00	0.00	0.22	0.06
14170	14160	14170	20.69	0.01	0.00	0.00	0.13	0.02
14175	14170	4266	55.44	0.02	0.00	0.00	0.35	0.14
20000	0	20000	12276.05	0.25	0.00	0.00	5.57	4.94
20010	20000	20010	12276.05	0.25	0.00	0.00	5.57	4.94
20020	20010	20020	12276.05	0.25	0.00	0.00	5.57	4.94
20030	20020	20100	12276.05	0.37	0.00	0.00	5.57	4.94
20100	20100	20110	4079.50	0.26	0.00	1.12	8.50	26.30
20105	20100	20200	8196.54	0.04	0.00	0.08	3.72	2.34
20110	20110	20120	4079.50	0.67	139.05	5.20	11.57	55.72
20120	20120	20130	4079.50	0.56	0.00	3.12	11.57	55.72





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
20130	20130	20140	4079.50	0.67	0.00	1.04	11.57	55.72
20140	20140	20240	4079.50	0.21	0.00	0.33	6.51	13.73
20200	20200	20210	4092.98	0.26	0.00	1.13	8.53	26.46
20205	20200	20300	4103.56	0.01	0.00	0.02	1.86	0.65
20210	20210	20220	4092.98	0.67	138.71	5.23	11.61	56.06
20220	20220	20230	4092.98	0.56	0.00	3.14	11.61	56.06
20230	20230	20240	4092.98	0.67	0.00	1.05	11.61	56.06
20240	20240	20340	8172.49	0.10	0.00	0.26	5.80	6.90
20300	20300	20310	4103.56	0.27	0.00	1.14	8.55	26.59
20305	20300	20400	0.00	0.00	0.00	0.00	0.00	0.00
20310	20310	20320	4103.56	0.68	138.44	5.26	11.64	56.33
20320	20320	20330	4103.56	0.56	0.00	3.16	11.64	56.33
20330	20330	20340	4103.56	0.68	0.00	1.05	11.64	56.33
20340	20340	20440	12276.04	0.07	0.00	0.24	5.57	4.94
20400	20400	20410	0.00	0.00	0.00	0.00	0.00	0.00
20410	20410	20420						
20420	20420	20430	0	0	0	0	0	0
20430	20430	20440	0	0	0	0	0	0
20440	20440	20500	12276.04	1.24	0	0.24	5.57	4.94
20500	20500	5	12276.04	1.03	0	0	5.57	4.94
21000	5040	21000	-1224.3	0.04	0	0	1.54	0.83
21010	21000	21010	-1224.3	0	0	0.06	1.54	0.83
21020	21010	21020	-1224.3	0	0	0.09	1.54	0.83
21030	21330	21020	1224.3	0.01	0	0.02	1.54	0.83
21040	21100	21040	-1224.3	0.04	0	0.02	1.54	0.83
21050	21040	21050	-1224.3	0.04	0	0.02	1.54	0.83
21060	21020	21050						
21100	21100	21110	1224.3	0.02	0	0.09	1.95	1.48
21105	21100	21200	0	0	0	0	0	0
21110	21110	21120	1224.3	0.06	91.08	0.47	3.47	6
21120	21120	21130	1224.3	0.03	0	0.2	2.55	2.83
21130	21130	21230	1224.3	0.01	0	0.02	1.54	0.83
21200	21200	21210	0	0	0	0	0	0
21205	21200	21300	0	0	0	0	0	0
21210	21210	21220						
21220	21220	21230	0	0	0	0	0	0
21230	21230	21330	1224.3	0.02	0	0	1.54	0.83
21400	21050	0	-1224.3	0.02	0	0.05	1.54	0.83
23000	6000	23000	268.77	0.03	0	0	0.34	0.05
23010	23000	23010	267.95	0.03	0	0	0.34	0.05
23020	23010	23020	2.4	0	0	0	0	0
23030	23020	23030	2.4	0	0	0	0	0
23040	23030	23040	2.4	0	0	0	0	0



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
23050	23010	23050	265.55	0.04	0	0	0.33	0.05
23060	23050	23060	265.55	0.03	0	0	0.33	0.05
23070	23060	23070	162.2	0.02	0	0	0.2	0.02
23080	23070	23100	109.59	0	0	0	0.14	0.01
23100	23120	5295	22.71	0	0	0	0.09	0.01
23110	23100	23110	109.59	0.1	0	0	0.45	0.17
23120	23110	23120	27.85	0.01	0	0	0.11	0.01
23200	5297	23200	-48.66	0.01	0	0	0.14	0.02
23210	23200	23210	-48.66	0.01	0	0	0.14	0.02
23220	23210	23220	-48.66	0.01	0	0	0.14	0.02
23230	23220	23070	-48.66	0	0	0	0.14	0.02
23235	23070	23230	-6.14	0	0	0	0.02	0
23240	23230	23240	-16.24	0	0	0	0.05	0
23400	5265	23400	-75.08	0.01	0	0	0.21	0.03
23410	23400	23410	-75.08	0.01	0	0	0.21	0.03
23420	23410	23420	-75.08	0.01	0	0	0.21	0.03
23430	23420	23060	-75.08	0.01	0	0	0.21	0.03
23445	23240	23540	-28.26	0	0	0	0.08	0.01
23500	23060	23500	28.26	0	0	0	0.08	0.01
23510	23500	23510	28.26	0	0	0	0.08	0.01
23520	23510	23520	28.26	0	0	0	0.08	0.01
23530	23520	23530	28.26	0	0	0	0.08	0.01
23540	23530	23540	28.26	0	0	0	0.08	0.01
23550	23540	23550	0	0	0	0	0	0
24000	10	24000	495.22	43.29	0	0	3.16	8.08



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	212.58	67.50	145.08	62.87
10		0.00	212.03	67.50	144.53	62.63
15		0.00	208.93	66.50	142.43	61.72
20		0.00	206.00	66.50	139.50	60.45
30		0.00	203.38	64.00	139.38	60.40
40		0.00	202.51	62.50	140.01	60.67
50		7.45	202.07	61.00	141.07	61.13
60		9.14	199.94	60.50	139.44	60.42
70		9.14	198.30	60.00	138.30	59.93
80		0.77	195.92	58.00	137.92	59.77
90		8.75	194.93	57.50	137.43	59.55
100		13.32	194.53	57.00	137.53	59.60
210		0.00	212.29	68.50	143.79	62.31
220		0.00	207.94	68.50	139.44	60.42
230		0.00	203.73	67.00	136.73	59.25
240		0.00	200.79	66.00	134.79	58.41
250		0.00	197.57	64.50	133.00	57.67
260		99.24	195.31	64.00	131.31	56.90
270		14.42	194.71	63.00	131.71	57.08
280		0.00	194.39	62.50	131.89	57.15
300		29.09	193.59	62.00	131.59	57.02
305		17.02	193.09	61.00	132.09	57.24
310		17.69	192.91	60.50	132.41	57.38
315		19.23	192.76	60.00	132.76	57.53
320		24.52	193.04	59.50	133.54	57.87
325		33.90	193.68	58.50	135.18	58.58
330		22.21	194.18	58.00	136.18	59.01
335		8.75	194.36	57.80	136.56	59.17
400		15.10	192.15	59.50	132.65	57.48
405		15.05	191.66	59.00	132.66	57.49
410		15.05	191.21	59.00	132.21	57.29
415		24.23	190.98	58.50	132.48	57.41
420		15.05	190.45	58.00	132.45	57.40
425		29.38	190.06	57.50	132.56	57.44
430		0.00	189.84	57.50	132.34	57.35
435		13.51	189.65	57.00	132.65	57.48
440		6.78	189.34	56.00	133.34	57.78
445		3.85	189.22	55.80	133.42	57.81
450		26.68	189.13	55.80	133.33	57.78
455		26.44	188.73	55.60	133.13	57.69
457		14.57	188.72	55.20	133.52	57.86
459		25.92	188.71	53.80	134.91	58.46
460	9TH & BROA	0.00	188.71	53.50	135.21	58.59





# CITY OF EL CENTRO WATER MASTER PLAN UPDATE

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	25.00	188.67	52.70	135.97	58.92
470		8.22	188.83	52.50	136.33	59.07
475		2.84	188.96	52.80	136.16	59.00
480		1.78	189.09	53.30	135.79	58.84
485		13.99	189.21	53.50	135.71	58.81
490		38.56	189.88	53.80	136.08	58.97
495		32.89	190.70	54.00	136.70	59.23
500		19.66	191.56	54.80	136.76	59.26
505		28.66	192.26	55.70	136.56	59.18
510		23.13	193.24	56.40	136.84	59.30
600		13.51	188.50	55.50	133.00	57.63
605		23.80	188.31	55.30	133.01	57.64
610		48.85	187.83	55.00	132.83	57.56
615		15.05	187.48	54.00	133.48	57.84
620		16.20	187.20	53.00	134.20	58.15
625		11.25	187.12	52.00	135.12	58.55
630		3.37	187.07	51.80	135.27	58.62
635		3.37	187.00	51.70	135.30	58.63
640		4.81	186.97	51.50	135.47	58.70
645		82.36	186.90	51.50	135.40	58.67
650		0.00	186.83	51.40	135.43	58.69
655		19.28	186.74	51.30	135.44	58.69
660		17.45	186.67	51.00	135.67	58.79
700		31.01	188.25	52.50	135.75	58.83
705		13.65	187.78	52.20	135.58	58.75
710		16.88	187.12	51.70	135.42	58.68
715		13.94	186.99	51.40	135.59	58.76
720		37.79	186.75	51.20	135.55	58.74
725		20.24	186.66	50.80	135.86	58.87
730		33.42	186.51	50.60	135.91	58.89
735		37.60	186.44	50.40	136.04	58.95
740		34.76	186.39	50.20	136.19	59.02
745		17.45	186.35	50.20	136.15	59.00
750		0.00	186.32	49.80	136.52	59.16
800		13.61	191.64	60.50	131.14	56.83
810		25.05	191.18	61.80	129.38	56.06
820		14.42	190.88	63.00	127.88	55.41
830		14.42	190.72	63.40	127.32	55.17
840		8.41	190.49	63.60	126.89	54.99
850		0.00	190.35	63.00	127.35	55.19
860		13.70	190.45	63.60	126.85	54.97
870		4.81	190.44	60.70	129.74	56.22
880		12.84	190.44	60.00	130.44	56.52



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		12.84	190.46	59.70	130.76	56.66
900		15.05	190.44	59.00	131.44	56.96
910		49.43	190.44	59.80	130.64	56.61
920		36.59	190.28	60.30	129.98	56.32
935		5.39	190.15	61.70	128.45	55.66
940		5.39	190.10	62.00	128.10	55.51
950		11.44	190.05	62.50	127.55	55.27
960		12.40	190.01	63.00	127.01	55.04
970		17.65	190.00	63.50	126.50	54.82
980		5.29	190.00	63.50	126.50	54.82
1000		29.76	195.54	63.00	132.54	57.43
1010		31.54	195.94	62.00	133.94	58.04
1015		14.57	197.98	61.60	136.38	59.10
1030		4.81	195.89	64.20	131.69	57.06
1040		16.92	195.85	64.00	131.85	57.13
1050		16.35	195.84	63.00	132.84	57.57
1060		20.34	195.90	62.90	133.00	57.63
1070		21.40	196.49	62.40	134.09	58.11
1080		19.52	198.14	62.00	136.14	58.99
1090		14.57	198.04	62.00	136.04	58.95
1100		9.33	195.70	63.00	132.70	57.50
1110		13.46	195.85	62.60	133.25	57.74
1150		17.55	195.77	64.20	131.57	57.02
1155		13.13	195.78	63.80	131.98	57.19
1160		16.97	195.80	63.50	132.30	57.33
1170		9.33	195.74	64.30	131.44	56.96
1175		4.95	195.74	64.00	131.74	57.09
1180		4.95	195.75	63.80	131.95	57.18
1185		8.75	195.79	63.60	132.19	57.28
1200		17.07	195.88	63.00	132.88	57.58
1205		13.08	195.80	63.60	132.20	57.29
1210		18.17	195.99	62.80	133.19	57.72
1220		14.18	195.82	63.80	132.02	57.21
1225		9.23	195.80	63.50	132.30	57.33
1240		9.86	195.74	64.30	131.44	56.96
1245		9.86	195.74	64.00	131.74	57.09
1250		9.86	195.75	63.80	131.95	57.18
1255		9.86	195.79	63.60	132.19	57.28
1260		8.41	195.80	63.50	132.30	57.33
1265		11.64	195.80	63.40	132.40	57.37
1270		11.64	195.81	63.30	132.51	57.42
1275		37.65	196.57	63.50	133.07	57.67
1300		22.36	194.48	62.30	132.18	57.28



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		30.48	195.34	61.50	133.84	58.00
1310		0.00	194.39	62.00	132.39	57.37
1315		18.27	194.36	63.00	131.36	56.92
1320		26.40	194.41	61.20	133.21	57.72
1325		9.14	193.69	61.10	132.59	57.46
1330		15.34	193.75	61.00	132.75	57.52
1335		30.19	194.32	60.90	133.42	57.82
1350		17.50	195.38	60.80	134.58	58.32
1360		163.47	189.62	60.80	128.82	55.82
1365		163.47	187.33	61.20	126.13	54.66
1370		163.47	188.48	60.60	127.88	55.41
1400		17.79	193.67	60.20	133.47	57.84
1403		13.70	193.47	59.80	133.67	57.92
1405		18.51	193.71	60.70	133.01	57.64
1420		9.62	193.94	59.80	134.14	58.13
1425		15.39	194.07	59.50	134.57	58.31
1430		10.10	194.33	59.20	135.13	58.56
1435		27.89	194.24	60.00	134.24	58.17
1440		13.46	194.59	60.00	134.59	58.32
1445		9.14	194.00	59.40	134.60	58.33
1450		6.73	194.33	59.10	135.23	58.60
1455		9.62	193.70	59.00	134.70	58.37
1460		13.94	193.86	59.00	134.86	58.44
1465		6.73	194.14	58.70	135.44	58.69
1470		9.14	193.75	58.50	135.25	58.61
1475		0.00	194.13	58.00	136.13	58.99
1540		34.38	194.59	58.80	135.79	58.84
1600		8.80	192.16	59.20	132.96	57.62
1605		17.45	192.21	58.30	133.91	58.03
1610		9.18	191.86	57.20	134.66	58.35
1615		8.65	192.06	57.40	134.66	58.35
1620		0.00	191.99	56.80	135.19	58.58
1625		22.12	192.19	56.80	135.39	58.67
1630		22.12	192.68	57.50	135.18	58.58
1635		15.53	193.42	58.20	135.22	58.60
1640		7.21	192.07	56.50	135.57	58.75
1645		13.46	192.31	56.80	135.51	58.72
1647		6.92	192.82	56.80	136.02	58.94
1650		13.46	193.01	57.20	135.81	58.85
1653		6.78	193.62	57.50	136.12	58.99
1655		6.73	193.75	57.80	135.95	58.91
1700		30.19	190.69	56.00	134.69	58.37
1702		59.67	191.02	56.30	134.72	58.38





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		14.47	191.84	56.00	135.84	58.86
1750		35.58	189.56	56.00	133.56	57.88
1755		35.96	189.60	54.70	134.90	58.46
1770		12.12	189.18	55.40	133.78	57.97
1775		21.16	189.03	54.30	134.73	58.38
1780		17.45	189.05	54.00	135.05	58.52
1790		3.85	189.19	55.00	134.19	58.15
1800		46.16	188.82	53.80	135.02	58.51
1805		45.29	188.96	53.40	135.56	58.74
1880		1.30	188.31	55.00	133.31	57.77
1900		27.89	187.54	53.60	133.94	58.04
1905		13.13	187.25	53.00	134.25	58.17
1910		15.15	187.01	52.50	134.51	58.29
1915		11.54	186.90	51.80	135.10	58.54
1920		21.30	186.77	51.50	135.27	58.62
1925		11.30	186.74	51.50	135.24	58.60
1930		10.00	186.74	51.50	135.24	58.60
1935		22.74	188.23	53.00	135.23	58.60
1940		36.78	187.71	52.80	134.91	58.46
1945		11.06	187.48	52.80	134.68	58.36
1950		23.80	187.12	52.50	134.62	58.33
1955		29.57	186.92	52.00	134.92	58.46
1960		24.76	186.80	51.50	135.30	58.63
1965		35.72	186.73	51.30	135.43	58.68
1970		29.28	186.72	51.20	135.52	58.73
1975		16.54	188.24	52.70	135.54	58.73
1980		27.02	187.71	52.40	135.31	58.63
1982		4.23	187.11	52.20	134.91	58.46
1985		10.10	187.11	52.20	134.91	58.46
1990		19.66	187.05	52.00	135.05	58.52
1995		24.28	186.84	51.50	135.34	58.65
2000		12.60	186.76	51.00	135.76	58.83
2005		17.45	186.56	51.00	135.56	58.74
2010		17.45	186.53	51.00	135.53	58.73
2015		17.45	186.50	51.00	135.50	58.71
2020		17.45	186.45	51.00	135.45	58.70
2200		0.00	203.73	67.50	136.23	59.03
2210		0.00	203.73	67.50	136.23	59.03
2220		0.00	203.73	67.50	136.23	59.03
2230		0.00	203.73	67.50	136.23	59.03
2300		9.38	203.67	67.50	136.17	59.01
2310		6.49	203.67	67.50	136.17	59.01
2320		2.88	203.67	67.50	136.17	59.01





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		9.38	203.65	67.50	136.15	59.00
2340		6.49	203.65	67.35	136.30	59.06
2350		2.88	203.65	67.50	136.15	59.00
2360		14.18	203.64	67.50	136.14	58.99
2370		6.49	203.64	67.50	136.14	58.99
2380		2.88	203.64	67.00	136.64	59.21
2400		0.00	207.43	65.00	142.43	61.72
2410		0.00	207.82	65.00	142.82	61.89
2420		0.00	208.18	65.50	142.68	61.83
2430		14.42	208.18	65.50	142.68	61.83
2440		14.42	208.46	66.00	142.46	61.73
2450		14.42	208.44	66.00	142.44	61.72
2460		14.42	208.44	66.00	142.44	61.72
2470		14.42	208.44	66.00	142.44	61.72
3000		16.01	192.73	62.70	130.03	56.35
3005		10.96	192.36	63.00	129.36	56.05
3010		18.51	191.74	63.80	127.94	55.44
3015		11.40	191.23	64.10	127.13	55.09
3020		16.20	190.91	65.10	125.81	54.52
3025		4.81	190.52	66.00	124.52	53.96
3030		17.36	190.52	66.20	124.32	53.87
3035		0.00	190.52	66.60	123.92	53.70
3040		0.00	190.52	66.80	123.72	53.61
3045		8.17	190.45	67.00	123.45	53.49
3050		0.00	190.42	67.30	123.12	53.35
3055	23RD & OCO	17.31	190.40	67.50	122.90	53.26
3060		12.93	190.40	68.00	122.40	53.04
3065		7.21	190.44	66.60	123.84	53.66
3070		19.23	190.37	66.50	123.87	53.68
3075		9.62	190.35	67.00	123.35	53.45
3080		0.00	190.34	67.00	123.34	53.45
3100		0.00	193.61	63.00	130.61	56.60
3105		0.77	193.61	63.00	130.61	56.60
3110		3.85	193.62	63.50	130.12	56.38
3115		5.77	193.64	64.00	129.64	56.18
3130		25.24	192.55	64.50	128.05	55.49
3140		13.94	192.08	65.10	126.98	55.02
3145		13.94	191.86	65.30	126.56	54.84
3147		14.42	191.86	65.50	126.36	54.76
3150		25.24	192.00	65.50	126.50	54.82
3200		10.00	191.25	66.00	125.25	54.27
3205		25.58	191.10	66.40	124.70	54.04
3210		0.00	191.10	66.50	124.60	53.99



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		20.91	190.90	67.00	123.90	53.69
3220		5.72	190.90	67.20	123.70	53.60
3225		18.17	191.39	65.90	125.49	54.38
3230		27.79	191.13	66.30	124.83	54.09
3235		20.91	190.90	66.80	124.10	53.77
3240		5.72	190.89	67.00	123.89	53.69
3245		15.34	191.32	65.00	126.32	54.74
3247		9.52	191.20	65.30	125.90	54.56
3250		27.41	191.14	65.90	125.24	54.27
3252		24.71	191.07	66.10	124.97	54.16
3255		22.79	190.83	66.60	124.23	53.83
3257		20.91	190.89	66.70	124.19	53.82
3259		5.72	190.89	66.90	123.99	53.73
3260		15.77	192.12	63.50	128.62	55.74
3262		4.23	192.12	63.40	128.72	55.78
3265		15.77	192.14	64.20	127.94	55.44
3267		4.23	192.14	64.10	128.04	55.48
3270		15.39	192.54	64.40	128.14	55.53
3275		15.77	192.18	64.60	127.58	55.29
3277		4.23	192.18	64.50	127.68	55.33
3280		11.54	191.73	65.50	126.23	54.70
3285		11.54	191.85	65.10	126.75	54.92
3290		40.58	191.81	64.80	127.01	55.04
3295		31.25	191.74	64.30	127.44	55.22
3300		19.71	190.91	65.90	125.01	54.17
3305		12.84	190.86	66.20	124.66	54.02
3310		6.25	190.86	66.30	124.56	53.98
3315		12.84	190.84	66.30	124.54	53.97
3320		6.25	190.83	66.40	124.43	53.92
3325		12.84	190.83	66.40	124.43	53.92
3330		6.25	190.83	66.50	124.33	53.87
3400		8.41	190.94	64.90	126.04	54.62
3405		4.81	190.93	65.00	125.93	54.57
3410		12.02	190.98	64.40	126.58	54.85
3415		4.81	190.97	64.50	126.47	54.81
3420		8.41	190.86	63.90	126.96	55.02
3425		4.81	190.86	64.00	126.86	54.97
3430		8.41	190.78	63.70	127.08	55.07
3435		4.81	190.78	63.80	126.98	55.02
3440		14.42	191.01	63.10	127.91	55.43
3450		25.05	191.39	62.20	129.19	55.98
3460		13.61	192.07	61.00	131.07	56.80
3470		13.61	192.14	61.30	130.84	56.70



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		25.05	191.53	62.50	129.03	55.91
3490		13.85	191.31	63.50	127.81	55.39
3500		16.25	191.27	64.00	127.27	55.15
3510		15.77	191.64	63.00	128.64	55.75
3520		21.06	192.44	62.00	130.44	56.52
3530		19.71	192.44	62.30	130.14	56.39
3540		27.07	191.68	63.30	128.38	55.63
3550		14.42	191.35	64.20	127.15	55.10
3600		15.05	191.33	60.20	131.13	56.82
3605		19.23	191.07	61.10	129.97	56.32
3610		15.05	191.04	59.90	131.14	56.83
3615		15.05	190.91	60.60	130.31	56.47
3620		15.05	190.80	59.50	131.30	56.90
3625		15.05	190.70	60.10	130.60	56.59
3630		15.05	189.93	58.70	131.23	56.87
3635		36.73	189.89	59.30	130.59	56.59
3640		0.00	189.82	58.30	131.52	56.99
3643		0.00	189.80	58.90	130.90	56.72
3645		5.48	189.80	59.00	130.80	56.68
3650		6.20	189.34	56.30	133.04	57.65
3660		0.00	189.80	58.30	131.50	56.98
3665		34.52	189.57	58.50	131.07	56.80
3670		0.00	189.80	58.30	131.50	56.98
3675		0.00	189.50	58.30	131.20	56.85
3680		0.00	189.80	58.00	131.80	57.11
3685		10.63	189.67	60.00	129.67	56.19
3690		0.00	189.80	57.80	132.00	57.20
3695		27.26	189.57	59.70	129.87	56.28
3697		26.97	189.57	59.20	130.37	56.49
3698		0.00	189.55	59.20	130.35	56.49
4000		21.44	190.37	67.20	123.17	53.37
4010		18.41	190.36	67.00	123.36	53.46
4020		18.41	190.36	67.00	123.36	53.46
4030		22.12	190.36	67.30	123.06	53.33
4040		12.69	190.37	67.30	123.07	53.33
4050		9.18	190.36	67.30	123.06	53.33
4060		14.28	190.36	67.40	122.96	53.28
4070		26.49	190.36	67.20	123.16	53.37
4080		9.62	190.37	67.20	123.17	53.38
4100		9.62	190.30	66.50	123.80	53.65
4105		22.45	190.32	66.10	124.22	53.83
4110		12.84	190.37	66.00	124.37	53.89
4115		9.62	190.26	66.00	124.26	53.85





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		22.45	190.27	65.80	124.47	53.94
4125		12.84	190.33	65.00	125.33	54.31
4130		4.81	190.21	65.80	124.41	53.91
4135		17.79	190.23	65.50	124.73	54.05
4140		11.54	190.28	65.30	124.98	54.16
4145		11.54	190.36	65.00	125.36	54.32
4150		6.73	190.28	65.00	125.28	54.29
4155		6.73	190.36	64.60	125.76	54.50
4200		10.72	190.23	63.80	126.43	54.79
4205		10.72	190.15	63.20	126.95	55.01
4210		10.72	190.14	61.90	128.24	55.57
4220		13.70	190.27	64.00	126.27	54.72
4225		35.58	190.17	64.30	125.87	54.54
4230		10.72	190.16	63.50	126.66	54.89
4235		22.89	190.12	63.80	126.32	54.74
4240		10.72	190.10	63.00	127.10	55.08
4245		22.89	190.08	63.50	126.58	54.85
4250		10.72	190.09	62.70	127.39	55.20
4255		22.84	190.06	63.00	127.06	55.06
4260		13.70	190.14	64.50	125.64	54.44
4265		18.99	190.13	64.80	125.33	54.31
4266		0.00	190.15	65.00	125.15	54.23
4267		5.29	190.13	65.00	125.13	54.22
4270		12.16	190.10	64.00	126.10	54.64
4275		17.45	190.09	64.30	125.79	54.51
4278		5.29	190.09	64.60	125.49	54.38
4280		12.16	190.07	63.60	126.47	54.80
4285		12.16	190.06	63.60	126.46	54.80
4290		12.12	190.04	62.50	127.54	55.27
4295		12.12	190.03	62.50	127.53	55.26
4300		12.74	189.91	62.00	127.91	55.43
4310		12.74	189.85	61.30	128.55	55.70
4320		12.74	189.81	60.50	129.31	56.04
4330		12.74	189.79	60.30	129.49	56.11
4340		18.03	189.91	62.30	127.61	55.30
4350		18.03	189.85	61.60	128.25	55.57
4360		12.74	189.81	61.20	128.61	55.73
4370		12.74	189.79	60.60	129.19	55.98
4380		5.29	189.91	62.50	127.41	55.21
4390		5.29	189.85	61.90	127.95	55.44
4400		8.89	189.79	60.00	129.79	56.24
4410		18.03	189.79	60.00	129.79	56.24
4420		9.14	189.82	60.00	129.82	56.25



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		7.21	189.82	60.00	129.82	56.25
4500		30.43	189.26	57.00	132.26	57.31
4510		52.31	189.41	58.00	131.41	56.95
4520		95.29	189.53	59.00	130.53	56.56
4530		13.70	189.66	59.40	130.26	56.44
4540		7.50	189.79	60.30	129.49	56.11
4550		16.40	189.79	60.50	129.29	56.02
4560		7.50	189.79	60.80	128.99	55.89
4570		4.23	189.79	60.00	129.79	56.24
4580	MAIN BTW L	4.23	189.79	60.00	129.79	56.24
4590		4.23	189.79	61.40	128.39	55.63
4600		19.71	188.74	56.30	132.44	57.39
4610		0.00	189.07	57.00	132.07	57.23
4620		0.00	189.40	58.20	131.20	56.86
4700		4.04	187.87	55.20	132.67	57.49
4710		38.94	187.90	55.80	132.10	57.24
4720		34.71	188.17	56.30	131.87	57.14
4730		0.00	188.24	56.80	131.44	56.96
4740		36.11	188.54	57.00	131.54	57.00
4750		9.62	188.66	57.00	131.66	57.05
4800		86.11	187.19	53.20	133.99	58.06
4810		18.03	187.55	54.20	133.35	57.78
4820		0.00	187.88	54.60	133.28	57.75
4830		0.00	188.20	55.20	133.00	57.63
4840		0.00	188.38	56.50	131.88	57.15
4850		0.38	187.55	55.30	132.25	57.31
4870		101.45	186.70	55.00	131.70	57.07
4880		0.00	188.22	56.00	132.22	57.30
4900		70.73	187.07	51.80	135.27	58.62
4910		10.67	187.05	51.70	135.35	58.65
4920		0.00	187.05	51.60	135.45	58.69
4930		1.54	186.98	51.50	135.48	58.71
4940		85.10	186.98	51.30	135.68	58.80
4947		22.60	187.00	51.60	135.40	58.67
4950		2.40	187.06	51.80	135.26	58.61
4955		22.60	187.14	51.90	135.24	58.60
4960		2.40	187.09	52.70	134.39	58.24
4965		7.21	187.10	52.70	134.40	58.24
4970		0.00	187.12	53.70	133.42	57.82
4975		28.37	187.16	54.00	133.16	57.70
4977		10.58	187.19	52.60	134.59	58.32
4980		10.58	187.23	52.30	134.93	58.47
4985		10.58	187.30	52.70	134.60	58.33



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	48.27	187.43	53.00	134.43	58.25
4995		0.00	187.23	52.10	135.13	58.55
5000		23.13	190.17	61.70	128.47	55.67
5010		0.00	190.03	61.00	129.03	55.91
5020		0.00	189.90	60.30	129.60	56.16
5030		12.26	189.79	59.80	129.99	56.33
5040		0.00	189.75	58.80	130.95	56.75
5050		0.00	189.03	58.20	130.83	56.69
5060		0.00	188.63	57.40	131.23	56.87
5070		0.00	188.09	55.70	132.39	57.37
5080		0.00	187.69	54.50	133.19	57.72
5090		0.00	187.58	52.20	135.38	58.66
5100		0.00	187.08	53.50	133.58	57.89
5110		11.73	187.12	53.50	133.62	57.90
5120		16.35	187.15	54.00	133.15	57.70
5130		16.35	187.17	55.90	131.27	56.88
5140		25.96	187.19	55.00	132.19	57.28
5150		10.58	187.31	54.50	132.81	57.55
5160		14.52	187.19	54.10	133.09	57.67
5170		10.58	187.24	53.00	134.24	58.17
5180		12.02	187.10	53.00	134.10	58.11
5190		9.62	187.00	51.70	135.30	58.63
5200		7.84	187.23	52.10	135.13	58.56
5205		7.84	187.23	51.80	135.43	58.69
5210		15.72	187.23	51.60	135.63	58.77
5215		7.84	187.27	51.40	135.87	58.88
5220		7.84	187.30	51.10	136.20	59.02
5230		8.32	187.32	51.30	136.02	58.94
5235		96.88	187.37	51.90	135.47	58.70
5240		5.91	187.23	52.30	134.93	58.47
5250		12.02	187.23	51.90	135.33	58.65
5255		11.78	187.23	51.80	135.43	58.68
5260		23.56	187.24	51.40	135.84	58.86
5265		11.78	187.30	51.00	136.30	59.06
5270		2.21	187.16	51.30	135.86	58.87
5277		0.00	187.16	51.50	135.66	58.78
5279		25.82	187.01	51.00	136.01	58.94
5280		84.04	186.99	51.00	135.99	58.93
5290		0.00	187.10	50.10	137.00	59.36
5292		0.00	187.30	50.80	136.50	59.15
5295		5.72	187.21	50.10	137.11	59.42
5297		0.00	187.31	52.80	134.51	58.29
5500		7.50	189.78	60.00	129.78	56.24





CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-2

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		7.50	189.78	60.30	129.48	56.11
5520		7.50	189.78	60.60	129.18	55.98
5530		7.50	189.77	58.70	131.07	56.80
5540		7.50	189.78	59.00	130.78	56.67
5550		7.50	189.78	59.00	130.78	56.67
6000		0.00	187.48	52.20	135.28	58.62
7000		14.42	202.95	62.00	140.95	61.08
7005		14.42	202.63	61.40	141.23	61.20
7010		40.72	202.35	60.80	141.55	61.34
7015		28.85	201.90	60.30	141.60	61.36
7020		21.49	201.65	59.50	142.15	61.60
7025		9.14	201.45	62.30	139.15	60.30
7030		21.54	201.37	62.00	139.37	60.39
7035		36.25	200.68	60.50	140.18	60.75
7040	AURORA BTW	1.54	200.30	59.00	141.30	61.23
7045		0.00	199.87	58.50	141.37	61.26
7050		17.02	199.68	57.80	141.88	61.48
7055		17.02	199.52	57.50	142.02	61.54
7060		0.00	199.18	56.00	143.18	62.04
7070		0.00	198.99	57.00	141.99	61.53
7080		3.13	198.54	57.50	141.04	61.12
7100		15.39	202.76	63.00	139.76	60.56
7110		11.54	202.04	61.00	141.04	61.12
7120		18.27	201.91	60.50	141.41	61.28
7130		19.23	201.89	59.50	142.39	61.70
7140		11.54	201.98	62.00	139.98	60.66
7150		18.27	201.92	60.80	141.12	61.15
7160		19.23	201.94	59.10	142.84	61.90
7200		12.21	202.16	62.50	139.66	60.52
7210		11.40	202.41	62.50	139.91	60.63
7300		3.22	201.09	62.00	139.09	60.27
7310		9.62	202.21	62.00	140.21	60.76
7320		9.62	202.15	61.60	140.55	60.90
7330		8.03	201.59	62.00	139.59	60.49
7340		8.03	200.73	61.00	139.73	60.55
7350		9.62	200.78	60.20	140.58	60.92
7360		12.12	200.75	59.50	141.25	61.21
7370		9.62	199.85	60.40	139.45	60.43
7380		12.12	199.82	59.50	140.32	60.80
7390		2.93	198.66	60.00	138.66	60.09
7400		18.75	199.44	60.90	138.54	60.03
7405		18.75	199.10	62.00	137.10	59.41
7410		34.14	198.93	61.00	137.93	59.77





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		20.39	198.77	59.50	139.27	60.35
7420		23.56	198.67	60.20	138.47	60.00
7425		10.39	198.61	60.60	138.01	59.80
7430		18.75	198.34	60.70	137.64	59.64
7435		18.75	198.20	61.50	136.70	59.24
7440		31.06	198.17	61.00	137.17	59.44
7445		23.08	198.13	59.70	138.43	59.99
7450		14.14	198.59	59.50	139.09	60.27
7455		18.75	197.57	60.50	137.07	59.40
7460		18.75	197.55	61.20	136.35	59.09
7465		30.48	197.56	60.50	137.06	59.39
7470		22.98	197.58	59.50	138.08	59.83
7475		0.58	198.24	58.00	140.24	60.77
7480		21.40	196.94	60.30	136.64	59.21
7485		18.75	196.95	61.00	135.95	58.91
7490		38.70	197.08	60.00	137.08	59.40
7495		31.97	197.32	59.30	138.02	59.81
7500		16.83	198.24	57.90	140.34	60.81
7505		6.73	196.57	60.00	136.57	59.18
7510		13.46	196.54	60.00	136.54	59.17
7515		13.46	196.84	59.40	137.44	59.56
7520		13.46	197.07	58.40	138.67	60.09
7525		9.33	197.96	57.50	140.46	60.87
7530		6.73	196.06	59.00	137.06	59.39
7535		13.46	196.07	58.50	137.57	59.61
7540		13.46	196.10	57.80	138.30	59.93
7545		6.73	196.16	57.30	138.86	60.17
7550		13.46	196.02	59.20	136.82	59.29
7555		13.46	195.64	58.80	136.84	59.30
7560		13.46	194.93	58.30	136.63	59.20
7565		26.92	194.85	57.70	137.15	59.43
7570		26.92	194.65	57.10	137.55	59.61
7573		13.46	195.81	56.40	139.41	60.41
7575		13.46	194.57	56.40	138.17	59.88
7577		13.46	194.82	58.00	136.82	59.29
7580		0.00	195.88	58.20	137.68	59.66
7585		13.46	194.19	57.50	136.69	59.23
7590		25.48	194.19	56.90	137.29	59.49
7595		25.48	193.33	56.30	137.03	59.38
7600		12.74	192.45	55.60	136.85	59.30
7605		10.24	195.87	57.30	138.57	60.05
7610		12.02	193.18	56.60	136.58	59.18
7615		24.04	192.76	56.20	136.56	59.18



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		24.38	192.47	55.70	136.77	59.27
7625		12.36	192.18	55.10	137.08	59.40
7700		24.04	192.44	55.90	136.54	59.17
7705		22.93	191.84	55.00	136.84	59.30
7710		22.69	191.54	54.00	137.54	59.60
7715		12.02	191.53	53.80	137.73	59.68
7720		34.76	192.00	55.00	137.00	59.37
7725		25.63	191.37	54.10	137.27	59.48
7730		20.34	191.08	53.70	137.38	59.53
7735		10.48	191.01	53.50	137.51	59.59
7740		20.05	191.60	54.40	137.20	59.45
7745		19.52	191.31	53.70	137.61	59.63
7750		26.73	190.58	53.60	136.98	59.36
7755		20.91	190.19	53.50	136.69	59.23
7760		32.60	190.68	53.90	136.78	59.27
7765		34.91	190.15	53.60	136.55	59.17
7770		34.38	190.01	53.50	136.51	59.15
7775		15.15	190.01	53.20	136.81	59.28
7780		32.31	189.89	53.60	136.29	59.06
7785		37.21	189.51	53.50	136.01	58.94
7790		36.54	189.46	53.40	136.06	58.96
7795		12.98	189.22	53.00	136.22	59.03
7800		5.63	189.33	53.40	135.93	58.91
7805		1.92	189.61	53.40	136.21	59.02
7810		1.92	189.40	53.30	136.10	58.98
7815		2.40	189.33	53.30	136.03	58.95
7820		6.25	189.15	53.10	136.05	58.96
7825		3.85	188.90	50.80	138.10	59.84
7830		9.62	188.68	52.70	135.98	58.92
7835		3.13	188.69	52.80	135.89	58.88
7840		7.21	188.70	52.60	136.10	58.98
7845		5.53	188.71	52.20	136.51	59.16
7850		8.85	188.00	52.10	135.90	58.89
7855		5.00	187.90	52.20	135.70	58.80
7860		4.81	187.87	51.90	135.97	58.92
7865		4.81	188.22	52.00	136.22	59.03
7870		8.08	188.22	51.80	136.42	59.11
7875		91.35	187.02	52.00	135.02	58.51
7880		0.00	187.25	52.00	135.25	58.61
7885		91.35	186.73	52.00	134.73	58.38
7890		91.35	185.74	52.00	133.74	57.96
7895		2.40	186.41	52.00	134.41	58.24
7900		22.89	189.10	53.30	135.80	58.85



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		20.00	189.03	53.30	135.73	58.82
7910		19.09	188.98	53.20	135.78	58.84
7915		3.89	188.89	52.80	136.09	58.97
7917		0.00	188.89	52.50	136.39	59.10
7920		9.86	188.89	52.90	135.99	58.93
7925		9.62	188.85	53.00	135.85	58.87
7930		9.62	188.81	52.80	136.01	58.94
7935		7.21	188.79	52.40	136.39	59.10
7937		0.53	188.71	52.10	136.61	59.20
7940		20.67	188.33	52.50	135.83	58.86
7945		20.67	188.42	52.40	136.02	58.94
7950		15.87	188.53	52.30	136.23	59.03
7955		8.65	188.56	52.00	136.56	59.18
8000		13.56	186.53	51.70	134.83	58.42
8005		15.77	186.46	51.60	134.86	58.44
8010		12.98	186.45	51.40	135.05	58.52
8015		3.99	186.45	51.30	135.15	58.56
8020		13.56	186.55	51.50	135.05	58.52
8025		16.40	186.47	51.40	135.07	58.53
8030		20.91	186.46	51.30	135.16	58.57
8035		11.30	186.44	51.90	134.54	58.30
8040		25.10	186.58	51.20	135.38	58.66
8045	6TH & EUCL	25.10	186.54	51.20	135.34	58.65
8050		21.16	186.53	50.80	135.73	58.81
8055		8.65	186.54	50.00	136.54	59.17
8060		20.19	186.51	50.90	135.61	58.76
8065		14.42	186.02	50.80	135.22	58.59
8070		19.23	186.27	50.40	135.87	58.88
8075		16.15	186.48	50.60	135.88	58.88
8080		8.32	186.50	50.50	136.00	58.93
8085		8.32	186.48	50.50	135.98	58.93
8090		106.55	185.72	49.50	136.22	59.03
8095		17.79	185.72	48.40	137.32	59.51
8100		0.00	185.98	49.50	136.48	59.14
8105		11.64	185.81	49.00	136.81	59.28
8110		7.26	185.76	48.70	137.06	59.39
8115		7.26	185.75	48.40	137.35	59.52
8120		11.64	185.75	48.00	137.75	59.69
8125		2.40	185.75	48.00	137.75	59.69
8130		2.40	185.75	47.70	138.05	59.82
8135		5.19	185.74	48.80	136.94	59.34
8140		1.01	185.72	49.50	136.22	59.03
8145		30.87	185.75	48.70	137.05	59.39





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.96	186.60	49.50	137.10	59.41
8205		0.91	186.60	49.00	137.60	59.62
8210		0.00	186.60	48.50	138.10	59.84
8215		13.85	186.69	48.70	137.99	59.79
8220		22.12	186.97	47.90	139.07	60.26
8225		19.14	187.45	47.70	139.75	60.56
8230		22.12	186.71	48.00	138.71	60.11
8235		22.12	186.94	47.50	139.44	60.43
8240		22.12	187.37	47.20	140.17	60.74
8250		11.06	186.71	47.50	139.21	60.32
8255		11.06	186.76	47.20	139.56	60.48
8260		11.06	186.78	47.20	139.58	60.48
8265		18.27	187.34	46.80	140.54	60.90
8270		5.77	186.76	47.20	139.56	60.47
8275		5.77	186.76	47.00	139.76	60.56
8280		5.77	186.75	46.80	139.95	60.65
8285		8.89	186.76	46.80	139.96	60.65
8290		8.89	186.76	46.80	139.96	60.65
8295		1.59	186.77	47.00	139.77	60.57
8300		4.18	187.96	49.50	138.46	60.00
8310		0.00	187.77	48.40	139.37	60.39
8320		0.87	187.53	47.80	139.73	60.55
8330		0.00	187.83	48.10	139.73	60.55
8340		0.00	187.90	48.00	139.90	60.62
8350		4.81	187.90	48.00	139.90	60.62
8360		0.00	187.53	47.60	139.93	60.64
8370		0.00	187.53	47.50	140.03	60.68
8380		7.21	188.17	48.60	139.57	60.48
8400		7.98	189.98	53.30	136.68	59.23
8410		0.58	189.89	53.00	136.89	59.32
8420		0.00	189.87	53.00	136.87	59.31
8430		0.58	189.88	53.20	136.68	59.23
8440		1.06	189.88	53.00	136.88	59.31
8450		0.96	189.87	52.80	137.07	59.40
8460		1.25	189.87	52.70	137.17	59.44
8470		1.25	189.87	52.50	137.37	59.53
8500		1.20	189.29	53.10	136.19	59.02
8510		1.73	189.10	52.70	136.40	59.11
8515		0.00	189.10	52.70	136.40	59.11
8520		1.01	188.97	52.00	136.97	59.35
8525		7.40	188.97	52.40	136.57	59.18
8530		0.24	188.90	52.00	136.90	59.33
8540		3.32	188.84	51.80	137.04	59.39



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		24.86	188.73	51.00	137.73	59.68
8560		24.57	188.71	51.80	136.91	59.33
8600		7.16	188.92	53.00	135.92	58.90
8610		23.13	188.84	52.20	136.64	59.21
8620		7.84	188.85	52.00	136.85	59.30
8630		25.24	188.73	51.70	137.03	59.38
8640		1.68	188.71	51.70	137.01	59.37
8650		9.90	188.68	51.40	137.28	59.49
8660		1.15	188.69	51.30	137.39	59.54
8670		4.33	188.67	51.10	137.57	59.61
8680		7.21	188.72	50.90	137.82	59.72
8690		0.00	188.56	49.50	139.06	60.26
8700		8.08	190.17	53.50	136.67	59.22
8710		11.59	190.24	53.70	136.54	59.17
8720		5.10	190.30	53.50	136.80	59.28
8725		9.66	190.63	54.00	136.63	59.21
8730		5.91	190.64	53.60	137.04	59.38
8735		11.88	190.99	53.80	137.19	59.45
8740		8.41	191.31	54.80	136.51	59.15
8745		8.41	191.30	54.00	137.30	59.49
8750		8.32	191.49	54.00	137.49	59.58
8755		216.36	187.56	55.20	132.36	57.35
8760		10.58	194.72	55.60	139.12	60.29
8765		3.08	194.72	54.70	140.02	60.68
8770		2.40	194.72	57.00	137.72	59.68
8775		7.21	198.57	57.00	141.57	61.35
8800		0.96	189.27	53.50	135.77	58.83
8810		11.35	189.04	53.00	136.04	58.95
8820		13.46	189.07	53.20	135.87	58.88
8830		4.47	189.54	53.20	136.34	59.08
8840		1.54	191.63	53.70	137.93	59.77
8845		1.59	191.63	53.70	137.93	59.77
8850		2.02	195.28	54.30	140.98	61.09
8900		15.29	188.73	52.10	136.63	59.21
8910		27.69	188.68	52.50	136.18	59.01
8920		12.40	188.64	52.80	135.84	58.86
8930		7.69	188.59	53.10	135.49	58.71
8940		0.53	188.57	53.40	135.17	58.57
8950		0.48	188.53	53.70	134.83	58.43
8960		2.74	188.48	54.80	133.68	57.93
8970		1.92	198.95	55.20	143.75	62.29
8975		5.19	198.95	55.00	143.95	62.38
8980		63.27	199.04	55.60	143.44	62.16



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		4.23	188.49	48.80	139.69	60.53
9010		0.19	188.46	48.80	139.66	60.52
9020		0.00	188.40	48.80	139.60	60.49
9030		1.20	188.36	49.10	139.26	60.35
9040		0.00	188.30	49.30	139.00	60.24
9050		0.00	188.28	49.50	138.78	60.14
9060		9.86	188.27	49.70	138.57	60.05
9070		10.82	188.27	50.00	138.27	59.92
9080		10.82	188.27	50.90	137.37	59.53
9090		5.53	188.28	51.40	136.88	59.31
9100		12.07	188.28	51.50	136.78	59.27
9110		0.00	188.30	52.00	136.30	59.06
9115		4.81	188.30	52.50	135.80	58.85
9120		4.47	188.32	52.60	135.72	58.81
9130		4.47	188.35	53.40	134.95	58.48
9140		1.78	188.36	54.00	134.36	58.22
9150	ROSS & McC	9.62	188.36	54.00	134.36	58.22
9160		0.00	188.37	54.00	134.37	58.23
9170		0.00	188.38	54.00	134.38	58.23
9175		7.74	188.37	53.30	135.07	58.53
9180		0.00	188.42	54.20	134.22	58.16
9190		0.00	188.47	54.80	133.67	57.92
9200		8.51	199.56	56.20	143.36	62.12
9210		8.51	199.61	56.00	143.61	62.23
9220		7.40	199.69	57.00	142.69	61.83
9230		10.96	199.69	56.80	142.89	61.92
9240		4.04	199.65	56.50	143.15	62.03
9250		7.79	199.81	57.80	142.01	61.54
9260		11.35	199.78	57.50	142.28	61.66
9270		7.45	199.84	58.50	141.34	61.25
9280		9.95	199.82	58.30	141.52	61.32
9300		0.00	201.03	61.50	139.53	60.46
9310		0.00	200.83	61.00	139.83	60.59
9320		4.33	201.01	62.00	139.01	60.24
9330		22.89	200.65	61.50	139.15	60.30
9333		3.65	200.17	61.00	139.17	60.31
9337		5.34	200.02	61.00	139.02	60.24
9340		8.41	199.82	59.00	140.82	61.02
9345		5.48	199.82	59.00	140.82	61.02
9350		9.76	199.83	60.00	139.83	60.59
9355		7.79	199.83	59.60	140.23	60.76
9360		11.15	199.85	60.50	139.35	60.38
9365		2.16	199.83	59.40	140.43	60.85





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		7.07	199.87	60.50	139.37	60.40
9375		9.14	199.84	60.50	139.34	60.38
9380		8.22	199.86	60.80	139.06	60.26
9385		2.26	199.83	60.50	139.33	60.38
9390		9.57	199.84	60.60	139.24	60.34
9395		5.48	199.84	60.50	139.34	60.38
9400		17.60	206.60	65.00	141.60	61.36
9410		0.00	206.59	64.00	142.59	61.79
9415		2.40	206.59	65.00	141.59	61.35
9420		12.93	206.58	63.00	143.58	62.22
9425		2.40	206.59	65.00	141.59	61.36
9430		0.00	206.57	62.00	144.57	62.65
9440		34.62	206.57	62.00	144.57	62.65
9460		5.77	206.81	65.50	141.31	61.23
9470		4.47	206.96	65.50	141.46	61.30
9480		0.00	206.96	65.50	141.46	61.30
9490		10.39	206.56	62.00	144.56	62.64
9500		12.02	188.49	52.70	135.79	58.84
9505		4.33	188.37	52.20	136.17	59.01
9510		18.80	188.51	52.10	136.41	59.11
9513		0.00	188.51	51.80	136.71	59.24
9515		12.21	188.36	51.80	136.56	59.18
9520		21.30	188.40	51.50	136.90	59.33
9525		6.73	188.31	51.50	136.81	59.29
9530		20.53	188.39	51.20	137.19	59.45
9535		16.78	188.26	51.10	137.16	59.44
9540		19.14	188.33	50.80	137.53	59.60
9545		26.54	188.16	50.50	137.66	59.65
9550		0.00	188.40	51.00	137.40	59.54
9555		11.68	188.07	50.50	137.57	59.61
9560		23.37	188.12	50.00	138.12	59.85
9565		355.79	187.87	50.50	137.37	59.53
9570		0.00	188.02	50.30	137.72	59.68
9575		0.00	187.87	50.20	137.67	59.66
9580		0.34	188.59	49.50	139.09	60.27
9585		9.66	188.02	50.00	138.02	59.81
9590		6.35	188.10	49.80	138.30	59.93
9595		1.68	188.10	49.70	138.40	59.97
9600		0.00	188.36	52.00	136.36	59.09
9605		6.44	188.32	51.50	136.82	59.29
9610		4.04	188.28	51.40	136.88	59.31
9640		20.63	188.11	49.70	138.41	59.98
9650		10.43	188.11	49.40	138.71	60.11





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		5.77	188.10	49.20	138.90	60.19
9670		4.09	188.19	49.40	138.79	60.14
9673		0.00	188.20	49.50	138.70	60.10
9675		3.17	188.19	49.40	138.79	60.14
9680		20.87	188.20	49.70	138.50	60.01
9685		0.00	188.40	48.90	139.50	60.45
9687		0.00	188.40	48.80	139.60	60.49
9688		0.00	188.40	48.90	139.50	60.45
9700		2.07	188.37	53.60	134.77	58.40
9710		0.00	188.36	53.30	135.06	58.53
9720		6.97	188.35	53.30	135.05	58.52
9730		2.16	188.36	53.60	134.76	58.39
9740		0.00	188.34	52.30	136.04	58.95
9750		6.44	188.30	51.80	136.50	59.15
9760		17.55	188.28	51.50	136.78	59.27
9770		12.12	188.26	51.20	137.06	59.39
9780		26.68	188.16	50.60	137.56	59.61
9790		12.89	188.16	50.10	138.06	59.83
9800		3.65	200.06	60.50	139.56	60.48
9810		5.34	200.03	60.50	139.53	60.46
9820		9.62	199.95	60.00	139.95	60.65
9830		11.06	199.93	60.00	139.93	60.63
9840		9.62	199.91	60.00	139.91	60.63
9850		11.06	199.92	60.00	139.92	60.63
9860		9.62	199.87	58.50	141.37	61.26
9870		11.06	199.59	57.00	142.59	61.79
9880		11.06	199.56	56.50	143.06	61.99
9900		0.00	188.36	57.00	131.36	56.92
9910		0.00	188.36	58.00	130.36	56.49
9920		0.00	188.36	58.00	130.36	56.49
10000		18.03	192.90	56.40	136.50	59.15
10010	6TH & HAMI	24.04	192.43	56.00	136.43	59.12
10020		24.04	191.94	55.00	136.94	59.34
10030		21.44	191.55	55.60	135.95	58.91
10040		11.54	191.01	54.00	137.01	59.37
10050		15.58	190.65	53.70	136.95	59.34
10060		12.02	190.30	53.50	136.80	59.28
10070		0.00	189.98	53.40	136.58	59.19
10080		7.21	189.85	53.30	136.55	59.17
10090		0.43	189.49	53.30	136.19	59.01
10100		8.89	189.27	53.20	136.07	58.96
10110		9.09	189.09	53.00	136.09	58.97
10115		5.05	189.05	53.00	136.05	58.95



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-2

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		8.03	188.78	52.00	136.78	59.27
10130		8.46	188.73	51.60	137.13	59.42
10140		15.96	188.69	51.40	137.29	59.49
10150		0.00	188.66	51.00	137.66	59.65
10160		45.68	188.63	50.80	137.83	59.72
10170		9.47	188.61	50.50	138.11	59.85
10180		2.74	188.59	50.00	138.59	60.06
10185		33.70	188.59	50.00	138.59	60.06
10190		4.33	188.56	49.00	139.56	60.48
10195		0.00	188.56	49.20	139.36	60.39
10200	3 RD & COM	28.37	188.56	50.00	138.56	60.04
10210		36.20	188.56	51.50	137.06	59.39
14100		9.62	190.29	66.50	123.79	53.64
14110		14.42	190.28	66.70	123.58	53.55
14115		4.81	190.28	66.80	123.48	53.51
14120		9.62	190.25	66.30	123.95	53.71
14130		14.42	190.24	66.50	123.74	53.62
14135		4.81	190.24	66.70	123.54	53.53
14140		8.41	190.20	65.80	124.40	53.91
14150		6.01	190.20	66.00	124.20	53.82
14160		13.22	190.19	65.50	124.69	54.03
14170		13.22	190.17	65.70	124.47	53.94
20000		0.00	90.75	58.80	31.95	13.85
20010		0.00	90.51	58.80	31.71	13.74
20020		0.00	90.26	58.80	31.46	13.63
20100		0.00	89.89	62.50	27.39	11.87
20110		0.00	88.50	62.50	26.00	11.27
20120		0.00	221.69	62.50	159.19	68.98
20130		0.00	218.01	62.50	155.51	67.39
20140		0.00	216.30	62.50	153.80	66.65
20200		0.00	89.78	62.50	27.28	11.82
20210		0.00	88.38	62.50	25.88	11.22
20220		0.00	221.19	62.50	158.69	68.77
20230		0.00	217.49	62.50	154.99	67.16
20240		0.00	215.77	62.50	153.27	66.42
20300		0.00	89.75	62.50	27.25	11.81
20310		0.00	88.35	62.50	25.85	11.20
20320		0.00	220.85	62.50	158.35	68.62
20330		0.00	217.13	62.50	154.63	67.01
20340		0.00	215.41	62.50	152.91	66.26
20400		0.00	89.75	62.50	27.25	11.81
20410		0.00	89.75	62.50	27.25	11.81
20420		0.00	215.09	62.50	152.59	66.12



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-2

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
20430		0.00	215.09	62.50	152.59	66.12
20440		0.00	215.09	62.50	152.59	66.12
20500		0.00	213.61	67.20	146.41	63.44
21000		0.00	189.79	59.00	130.79	56.68
21010		0.00	189.85	59.00	130.85	56.70
21020		0.00	189.95	59.00	130.95	56.75
21040		0.00	99.88	60.00	39.88	17.28
21050		0.00	99.94	62.50	37.44	16.22
21100		0.00	99.82	63.30	36.52	15.82
21110		0.00	99.71	63.30	36.41	15.78
21120		0.00	190.26	63.30	126.96	55.02
21130		0.00	190.03	59.80	130.23	56.43
21200		0.00	99.82	63.30	36.52	15.82
21210		0.00	99.82	63.30	36.52	15.82
21220		0.00	189.99	63.30	126.69	54.90
21230		0.00	189.99	59.80	130.19	56.42
21300		0.00	99.82	63.30	36.52	15.82
21330		0.00	189.98	59.80	130.18	56.41
23000		0.82	187.45	50.00	137.45	59.56
23010		0.00	187.41	50.00	137.41	59.55
23020		0.00	187.41	47.00	140.41	60.85
23030		0.00	187.41	46.00	141.41	61.28
23040		2.40	187.41	45.00	142.41	61.71
23050		0.00	187.38	50.00	137.38	59.53
23060		0.00	187.35	49.00	138.35	59.95
23070		10.10	187.33	48.50	138.83	60.16
23100	BRADSHAW &	0.00	187.33	47.00	140.33	60.81
23110		81.74	187.23	48.00	139.23	60.33
23120		5.14	187.22	48.50	138.72	60.11
23200		0.00	187.32	49.00	138.32	59.94
23210		0.00	187.32	49.00	138.32	59.94
23220		0.00	187.33	47.50	139.83	60.59
23230		10.10	187.33	46.50	140.83	61.03
23240		12.02	187.33	46.00	141.33	61.24
23400		0.00	187.31	49.00	138.31	59.93
23410		0.00	187.32	49.00	138.32	59.94
23420		0.00	187.33	48.00	139.33	60.38
23500		0.00	187.34	47.00	140.34	60.82
23510		0.00	187.34	47.00	140.34	60.81
23520		0.00	187.34	47.00	140.34	60.81
23530		0.00	187.34	47.00	140.34	60.81
23540		0.00	187.33	46.50	140.83	61.03
23550		0.00	187.33	46.00	141.33	61.24





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
24000		495.22	168.74	76.00	92.74	40.19

## SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES

(-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
----------------	-------------------

20000	12276.05
21400	1224.30

NET SYSTEM INFLOW = 13500.35

NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 13500.27

\*\*\*\* CYBERNET SIMULATION COMPLETED \*\*\*\*

DATE: 10/02/1994

TIME: 14:27:16







**APPENDIX C**  
**CITY OF EL CENTRO WATER MASTER PLAN UPDATE**  
**HYDRAULIC MODELING RESULTS**

**RUN 3 (Figure 5.4)**

**Existing Water Distribution System Available Fire Flows  
for Average Day Demand of Maximum Demand Month**

<b>Total Demand</b>	<b>8,700 gpm</b>	<b>12.5 mgd</b>
<b>Number of Pumps Operating:</b>		
Water Treatment Plant Pump Station	3	
Remote Pump Station	1	
<b>Pump Operating Speed:</b>		
Water Treatment Plant Pump Station	100%	
Remote Pump Station	100%	
<b>Pump Discharge Rate:</b>		
Pump 1 Water Treatment Plant PS	2,156 gpm	
Pump 2 Water Treatment Plant PS	2,167 gpm	
Pump 3 Water Treatment Plant PS	2,173 gpm	
Pump 1 Remote Pump Station	2,184 gpm	
<b>Pump Discharge Head:</b>		
Pump 1 Water Treatment Plant PS	169.4 ft	73.4 psi
Pump 2 Water Treatment Plant PS	169.3 ft	73.4 psi
Pump 3 Water Treatment Plant PS	169.3 ft	73.4 psi
Pump 1 Remote Pump Station	154.2 ft	66.8 psi
<b>Hydraulic Grade Elevation:</b>		
at Water Treatment Plant PS (El. 67 ft)	255.7 ft	81.8 psi
at Remote Pump Station (El. 60 ft)	250.7 ft	82.6 psi
at 3rd & Commercial (El. 50 ft)	248.1 ft	85.8 psi

Note: Pump discharge rate, pump discharge head, and hydraulic grade elevations listed above are for pumps running at full speed at maximum day demand prior to adding the fire flow demand at the nodes.









Cybernet Version: 2.16c SN: 1162130099 22-08-1994  
 Description: EXISTING CONDITIONS FIRE FLOW W/ 4 PUMPS RUNNING  
 Drawing: C:\ELCENTRO\EC-PEAK1

Fire Flow Summary.

Page 1

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT No.
5	0.0	81.4	1	1500.0	5000.0	70.7	68.9	3060
10	0.0	81.3	1	1500.0	5000.0	70.5	68.8	3060
15	0.0	81.4	1	1500.0	5000.0	69.9	68.3	3060
20	0.0	81.0	1	1500.0	5000.0	69.0	67.7	3060
30	0.0	81.7	1	1500.0	5000.0	69.3	67.2	3060
40	0.0	82.3	1	1500.0	5000.0	69.7	67.1	3060
50	4.8	82.9	1	1504.8	5000.0	70.2	67.0	3060
60	5.9	82.8	1	1505.9	5000.0	69.7	66.6	3060
70	5.9	82.8	1	1505.9	5000.0	69.5	66.3	3060
80	0.5	83.4	1	1500.5	5000.0	69.8	66.0	3060
90	5.6	83.5	1	1505.6	5000.0	69.8	65.8	3060
100	8.6	83.7	1	1508.6	5000.0	69.7	65.9	3060
210	0.0	80.9	1	1500.0	5000.0	69.7	68.7	3060
220	0.0	80.4	1	1500.0	5000.0	65.8	66.4	2370
230	0.0	80.5	1	1500.0	5000.0	64.6	64.4	2370
240	0.0	80.6	1	1500.0	5000.0	64.5	65.6	3220
250	0.0	80.9	1	1500.0	5000.0	65.1	65.0	3220
260	63.8	80.8	1	1563.8	5000.0	65.6	64.5	3220
270	9.3	81.2	1	1509.3	5000.0	66.0	64.6	3220
280	0.0	81.4	1	1500.0	5000.0	66.2	64.6	3060
300	18.7	81.5	1	1518.7	5000.0	66.6	64.5	3060
305	10.9	81.9	1	1510.9	5000.0	66.9	64.6	3060
310	11.4	82.1	1	1511.4	5000.0	67.2	64.7	3060
315	12.4	82.3	1	1512.4	5000.0	67.8	64.8	3060
320	15.8	82.5	1	1515.8	5000.0	67.7	64.9	3060
325	21.8	83.0	1	1521.8	5000.0	68.2	65.3	3060
330	14.3	83.2	1	1514.3	5000.0	68.6	65.5	3060
335	5.6	83.3	1	1505.6	5000.0	68.9	65.6	3060
400	9.7	82.4	1	1509.7	5000.0	67.6	64.7	3060
405	9.7	82.6	1	1509.7	5000.0	65.3	64.7	3060
410	9.7	82.6	1	1509.7	5000.0	64.3	64.8	3060
415	15.6	82.8	1	1515.6	5000.0	64.4	64.8	3060
420	9.7	82.9	1	1509.7	5000.0	64.2	64.9	3060
425	18.9	83.1	1	1518.9	5000.0	63.1	64.4	430
430	0.0	83.0	1	1500.0	5000.0	62.6	64.0	435
435	8.7	83.2	1	1508.7	5000.0	62.2	64.0	1750
440	4.4	83.6	1	1504.4	5000.0	62.8	62.7	3650
445	2.5	83.7	1	1502.5	5000.0	63.3	64.6	3650
450	17.2	83.7	1	1517.2	5000.0	64.2	65.1	445
455	17.0	83.7	1	1517.0	5000.0	64.0	65.0	457
457	9.4	83.8	1	1509.4	5000.0	60.9	65.2	459

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 2

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
459	16.7	84.4	1	1516.7	5000.0	60.8	64.9	457
460	0.0	84.5	1	1500.0	5000.0	64.1	65.3	459
465	16.1	84.8	1	1516.1	5000.0	65.1	65.7	3060
470	5.3	84.9	1	1505.3	5000.0	65.2	65.7	3060
475	1.8	84.8	1	1501.8	5000.0	65.7	65.7	3060
480	1.1	84.6	1	1501.1	5000.0	65.7	65.7	3060
485	9.0	84.5	1	1509.0	5000.0	65.7	65.7	3060
490	24.8	84.5	1	1524.8	5000.0	64.3	65.2	1755
495	21.1	84.5	1	1521.1	5000.0	64.8	65.7	3060
500	12.6	84.2	1	1512.6	5000.0	65.6	65.7	3060
505	18.4	83.9	1	1518.4	5000.0	65.1	65.7	3060
510	14.9	83.8	1	1514.9	5000.0	66.0	65.7	3060
600	8.7	83.7	1	1508.7	5000.0	62.3	63.3	605
605	15.3	83.8	1	1515.3	5000.0	61.4	61.6	1880
610	31.4	83.8	1	1531.4	5000.0	62.5	63.5	4700
615	9.7	84.2	1	1509.7	5000.0	61.2	64.0	1905
620	10.4	84.6	1	1510.4	5000.0	62.0	62.3	4800
625	7.2	85.0	1	1507.2	5000.0	60.3	62.9	4800
630	2.2	85.1	1	1502.2	5000.0	61.8	62.6	4900
635	2.2	85.1	1	1502.2	5000.0	59.5	62.2	1920
640	3.1	85.2	1	1503.1	5000.0	60.2	60.5	645
645	52.9	85.2	1	1552.9	5000.0	55.9	57.4	650
650	0.0	85.2	1	1500.0	5000.0	50.9	54.9	655
655	12.4	85.2	1	1512.4	5000.0	48.5	49.4	660
660	11.2	85.3	1	1511.2	3359.9	35.0	50.1	2020
700	19.9	84.8	1	1519.9	5000.0	64.7	65.4	1975
705	8.8	84.9	1	1508.8	5000.0	61.9	63.5	1982
710	10.8	85.0	1	1510.8	5000.0	59.0	59.2	1982
715	9.0	85.1	1	1509.0	5000.0	58.0	59.4	8000
720	24.3	85.1	1	1524.3	5000.0	56.5	57.7	8040
725	13.0	85.3	1	1513.0	5000.0	51.9	55.1	730
730	21.5	85.4	1	1521.5	5000.0	41.8	41.9	8085
735	24.2	85.5	1	1524.2	5000.0	36.7	39.7	740
740	22.3	85.5	1	1522.3	4728.3	35.0	36.9	745
745	11.2	85.5	1	1511.2	4269.6	35.0	35.5	750
750	0.0	85.7	1	1500.0	3965.0	35.0	39.6	8100
800	8.7	82.0	1	1508.7	5000.0	66.4	64.4	3060
810	16.1	81.4	1	1516.1	5000.0	65.9	64.2	3060
820	9.3	80.9	1	1509.3	5000.0	65.1	63.9	3060
830	9.3	80.7	1	1509.3	5000.0	64.9	63.7	3060

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
840	5.4	80.6	1	1505.4	5000.0	64.8	63.6	3060
850	0.0	80.9	1	1500.0	5000.0	64.8	63.8	3060
860	8.8	80.6	1	1508.8	5000.0	63.7	63.1	3060
870	3.1	81.8	1	1503.1	5000.0	59.8	58.8	4145
880	8.3	82.1	1	1508.3	5000.0	59.3	58.9	4125
890	8.3	82.2	1	1508.3	5000.0	59.2	57.9	4110
900	9.7	82.5	1	1509.7	5000.0	59.5	64.8	3060
910	31.8	82.2	1	1531.8	5000.0	63.9	64.6	3060
920	23.5	82.0	1	1523.5	5000.0	60.0	64.4	3060
935	3.5	81.4	1	1503.5	5000.0	64.5	63.9	3060
940	3.5	81.3	1	1503.5	5000.0	58.9	61.5	950
950	7.4	81.1	1	1507.4	5000.0	57.9	59.0	960
960	8.0	80.8	1	1508.0	5000.0	55.8	57.7	980
970	11.3	80.6	1	1511.3	5000.0	51.7	51.7	980
980	3.4	80.6	1	1503.4	5000.0	43.0	51.7	970
1000	19.1	81.2	1	1519.1	4541.8	35.0	52.2	1100
1010	20.3	81.7	1	1520.3	5000.0	46.6	53.3	1110
1015	9.4	82.1	1	1509.4	5000.0	36.8	50.6	1090
1030	3.1	80.8	1	1503.1	5000.0	36.2	42.2	1040
1040	10.9	80.8	1	1510.9	4560.4	35.0	42.4	1150
1050	10.5	81.2	1	1510.5	4701.0	35.0	38.1	1160
1060	13.1	81.3	1	1513.1	3103.4	35.0	47.6	1200
1070	13.8	81.6	1	1513.8	3093.9	35.0	48.6	1210
1080	12.5	81.9	1	1512.5	3431.8	34.7	49.4	1090
1090	9.4	81.9	1	1509.4	2477.1	35.0	65.4	1080
1100	6.0	81.2	1	1506.0	2183.3	35.0	72.2	1110
1110	8.7	81.4	1	1508.7	4873.6	35.0	43.9	1100
1150	11.3	80.7	1	1511.3	2826.3	35.0	40.6	1240
1155	8.4	80.9	1	1508.4	2175.0	35.0	60.8	1150
1160	10.9	81.0	1	1510.9	3834.5	35.0	40.3	1255
1170	6.0	80.7	1	1506.0	2098.7	35.0	35.0	1240
1175	3.2	80.8	1	1503.2	1962.2	35.0	35.0	1245
1180	3.2	80.9	1	1503.2	2137.2	35.0	35.0	1250
1185	5.6	81.0	1	1505.6	3518.4	35.0	35.0	1255
1200	11.0	81.2	1	1511.0	2897.1	35.0	51.7	1210
1205	8.4	81.0	1	1508.4	3254.5	35.0	35.0	1260
1210	11.7	81.3	1	1511.7	2820.4	35.0	47.2	1220
1220	9.1	80.9	1	1509.1	2618.5	35.0	35.2	1270
1225	5.9	81.0	1	1505.9	2808.0	35.0	35.0	1265
1240	6.3	80.7	1	1506.3	1641.5	35.0	50.7	1170

\* Needed Fire Flow not attained.





Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
1245	6.3	80.8	1	1506.3	1546.0	35.0	50.3	1175
1250	6.3	80.9	1	1506.3	1613.2	35.0	52.4	1180
1255	6.3	81.0	1	1506.3	2021.8	35.0	62.9	1185
1260	5.4	81.0	1	1505.4	1716.1	35.0	65.0	1205
1265	7.5	81.1	1	1507.5	1525.8	35.0	64.4	1225
1270	7.5	81.1	1	1507.5	1516.3	35.0	62.5	1220
1275	24.2	81.1	1	1524.2	4497.7	35.0	56.2	1030
1300	14.4	81.4	1	1514.4	5000.0	36.5	61.4	1310
1305	19.6	81.9	1	1519.6	4333.6	35.0	61.0	1010
1310	0.0	81.6	1	1500.0	5000.0	58.3	59.9	1300
1315	11.7	81.1	1	1511.7	5000.0	46.2	58.2	1320
1320	17.0	81.9	1	1517.0	4234.6	35.0	64.0	1315
1325	5.9	81.9	1	1505.9	5000.0	61.1	61.7	1330
1330	9.9	81.9	1	1509.9	5000.0	58.4	62.1	1325
1335	19.4	82.0	1	1519.4	5000.0	48.0	55.4	1435
1350	11.3	82.2	1	1511.3	5000.0	37.8	54.9	1440
1400	11.4	82.3	1	1511.4	3564.8	35.0	60.4	1405
1403	8.8	82.4	1	1508.8	3729.7	35.0	60.0	1400
1405	11.9	82.0	1	1511.9	3634.1	35.0	59.6	1400
1420	6.2	82.4	1	1506.2	3279.8	35.0	65.1	1425
1425	9.9	82.6	1	1509.9	4525.9	35.0	51.3	1420
1430	6.5	82.7	1	1506.5	4021.3	35.0	60.0	1440
1435	17.9	82.4	1	1517.9	5000.0	38.7	56.3	1335
1440	8.7	82.4	1	1508.7	3830.9	35.0	61.9	1430
1445	5.9	82.6	1	1505.9	4685.7	35.0	50.6	1420
1450	4.3	82.8	1	1504.3	5000.0	35.5	43.4	1540
1455	6.2	82.8	1	1506.2	2876.0	35.0	68.7	1403
1460	9.0	82.8	1	1509.0	5000.0	36.5	50.6	1455
1465	4.3	82.9	1	1504.3	4429.8	35.0	58.9	1475
1470	5.9	83.0	1	1505.9	5000.0	51.2	61.7	1460
1475	0.0	83.2	1	1500.0	4683.7	35.0	55.8	1465
1540	22.1	82.9	1	1522.1	3907.4	35.0	58.7	1450
1600	5.7	82.6	1	1505.7	2568.3	35.0	71.4	1605
1605	11.2	82.9	1	1511.2	3423.3	35.0	63.0	1600
1610	5.9	83.3	1	1505.9	5000.0	37.6	51.4	1615
1615	5.6	83.3	1	1505.6	4071.7	35.0	57.1	1605
1620	0.0	83.5	1	1500.0	5000.0	47.8	55.3	1625
1625	14.2	83.5	1	1514.2	5000.0	46.9	55.4	1620
1630	14.2	83.3	1	1514.2	5000.0	48.1	58.0	1605
1635	10.0	83.1	1	1510.0	5000.0	54.1	63.3	1630

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
1640	4.6	83.6	1	1504.6	5000.0	35.3	46.9	1705
1645	8.7	83.5	1	1508.7	4249.2	35.0	57.3	1647
1647	4.5	83.6	1	1504.5	4236.2	35.0	56.3	1650
1650	8.7	83.4	1	1508.7	4293.5	35.0	55.6	1647
1653	4.4	83.4	1	1504.4	4408.9	35.0	56.8	1650
1655	4.3	83.3	1	1504.3	4798.7	35.0	55.0	1653
1700	19.4	83.7	1	1519.4	3341.6	35.0	54.2	1702
1702	38.4	83.6	1	1538.4	2740.1	35.0	64.1	1700
1705	9.3	83.8	1	1509.3	2576.3	35.0	72.8	1640
1750	22.9	83.6	1	1522.9	1747.6	35.0	63.8	1755
1755	23.1	84.1	1	1523.1	1751.0	35.0	63.3	1750
1770	7.8	83.8	1	1507.8	4821.9	35.0	42.9	1790
1775	13.6	84.1	1	1513.6	5000.0	56.3	64.1	1770
1780	11.2	84.3	1	1511.2	5000.0	63.7	65.2	1775
1790	2.5	84.0	1	1502.5	2883.1	35.0	68.4	1770
1800	29.7	84.3	1	1529.7	5000.0	62.2	65.6	3060
1805	29.1	84.5	1	1529.1	5000.0	63.9	65.7	3060
1880	0.8	83.9	1	1500.8	1868.0	35.0	74.9	3060
1900	17.9	84.3	1	1517.9	2207.3	35.0	74.1	3060
1905	8.4	84.5	1	1508.4	2233.8	35.0	74.1	3060
1910	9.7	84.7	1	1509.7	2252.0	35.0	74.0	3060
1915	7.4	85.0	1	1507.4	2231.8	35.0	74.1	3060
1920	13.7	85.1	1	1513.7	4922.5	35.0	45.8	1930
1925	7.3	85.1	1	1507.3	4230.5	35.0	56.0	1920
1930	6.4	85.1	1	1506.4	4297.8	35.0	54.6	1920
1935	14.6	84.6	1	1514.6	5000.0	55.6	60.6	1975
1940	23.6	84.6	1	1523.6	5000.0	39.9	51.5	1945
1945	7.1	84.6	1	1507.1	5000.0	38.9	51.8	1940
1950	15.3	84.7	1	1515.3	5000.0	47.2	57.3	1905
1955	19.0	84.9	1	1519.0	5000.0	43.8	55.8	1910
1960	15.9	85.1	1	1515.9	5000.0	45.7	55.3	1915
1965	23.0	85.2	1	1523.0	5000.0	42.9	48.3	1925
1970	18.8	85.2	1	1518.8	5000.0	45.5	50.0	1930
1975	10.6	84.7	1	1510.6	5000.0	56.5	60.3	1935
1980	17.4	84.8	1	1517.4	2249.9	35.0	74.1	3060
1982	2.7	84.8	1	1502.7	2144.5	35.0	74.3	1985
1985	6.5	84.8	1	1506.5	5000.0	46.1	46.1	1982
1990	12.6	84.9	1	1512.6	5000.0	40.4	58.4	1995
1995	15.6	85.1	1	1515.6	4431.3	35.0	61.6	2000
2000	8.1	85.3	1	1508.1	4859.2	35.0	57.8	1995

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
2005	11.2	85.2	1	1511.2	2216.9	35.0	74.1	3060
2010	11.2	85.2	1	1511.2	2206.5	35.0	74.1	3060
2015	11.2	85.2	1	1511.2	2144.1	35.0	74.3	3060
2020	11.2	85.2	1	1511.2	2123.5	35.0	70.6	660
2200	0.0	80.3	1	1500.0	5000.0	60.5	60.5	2370
2210	0.0	80.3	1	1500.0	5000.0	56.0	56.0	2370
2220	0.0	80.3	1	1500.0	5000.0	53.8	53.8	2370
2230	0.0	80.3	1	1500.0	5000.0	51.1	53.8	2370
2300	6.0	80.3	1	1506.0	3106.2	35.0	35.0	2370
2310	4.2	80.3	1	1504.2	2234.8	35.0	54.4	2370
2320	1.9	80.3	1	1501.9	2501.6	35.0	49.1	2370
2330	6.0	80.3	1	1506.0	2292.6	35.0	35.0	2370
2340	4.2	80.4	1	1504.2	1857.8	35.0	48.8	2370
2350	1.9	80.3	1	1501.9	2005.3	35.0	44.3	2370
2360	9.1	80.3	1	1509.1	1887.1	35.0	35.0	2370
2370	4.2	80.3	1	1504.2	1613.7	35.0	45.6	2360
2380	1.9	80.5	1	1501.9	1717.6	35.0	41.8	2370
2400	0.0	81.8	1	1500.0	5000.0	65.9	65.8	9470
2410	0.0	81.9	1	1500.0	5000.0	67.9	67.8	9470
2420	0.0	81.7	1	1500.0	5000.0	70.1	68.1	3060
2430	9.3	81.7	1	1509.3	5000.0	69.0	68.1	3060
2440	9.3	81.5	1	1509.3	5000.0	50.7	50.7	2460
2450	9.3	81.5	1	1509.3	3495.5	35.0	35.0	2460
2460	9.3	81.5	1	1509.3	2875.9	35.0	48.7	2470
2470	9.3	81.5	1	1509.3	2975.6	35.0	46.7	2460
3000	10.3	81.1	1	1510.3	5000.0	60.7	61.8	3005
3005	7.0	80.9	1	1507.0	5000.0	58.9	61.5	3010
3010	11.9	80.5	1	1511.9	5000.0	57.4	60.3	3015
3015	7.3	80.4	1	1507.3	5000.0	55.8	59.8	3020
3020	10.4	79.9	1	1510.4	5000.0	57.8	58.7	3300
3025	3.1	79.5	1	1503.1	5000.0	57.6	57.1	3060
3030	11.2	79.4	1	1511.2	5000.0	53.9	54.1	3035
3035	0.0	79.2	1	1500.0	5000.0	52.6	52.9	3040
3040	0.0	79.2	1	1500.0	5000.0	51.8	51.9	3060
3045	5.3	79.1	1	1505.3	5000.0	43.4	43.7	3050
3050	0.0	78.9	1	1500.0	5000.0	35.3	36.2	3055
3055	11.1	78.8	1	1511.1	4761.6	35.0	35.2	3060
3060	8.3	78.6	1	1508.3	4448.8	35.0	40.6	3055
3065	4.6	79.2	1	1504.6	5000.0	51.6	54.5	3070
3070	12.4	79.3	1	1512.4	5000.0	51.3	52.0	3075

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3075	6.2	79.1	1	1506.2	5000.0	40.7	41.8	3080
3080	0.0	79.1	1	1500.0	5000.0	38.2	42.3	3075
3100	0.0	81.1	1	1500.0	2324.1	35.0	35.0	3105
3105	0.5	81.1	1	1500.5	1692.3	35.0	54.6	3100
3110	2.5	80.8	1	1502.5	2283.8	35.0	58.4	3105
3115	3.7	80.6	1	1503.7	5000.0	36.3	45.3	3110
3130	16.2	80.3	1	1516.2	4119.0	35.0	38.6	3140
3140	9.0	80.0	1	1509.0	3372.4	35.0	46.1	3147
3145	9.0	79.9	1	1509.0	3686.1	35.0	34.9	3147
3147	9.3	79.8	1	1509.3	2920.4	35.0	49.7	3145
3150	16.2	79.8	1	1516.2	3728.5	35.0	45.1	3147
3200	6.4	79.5	1	1506.4	2198.7	35.0	56.0	3210
3205	16.4	79.3	1	1516.4	2551.2	35.0	34.9	3210
3210	0.0	79.3	1	1500.0	1739.0	35.0	56.2	3205
3215	13.4	79.1	1	1513.4	2657.5	35.0	34.9	3220
3220	3.7	79.0	1	1503.7	1622.1	35.0	59.7	3215
3225	11.7	79.6	1	1511.7	3397.6	35.0	38.4	3200
3230	17.9	79.4	1	1517.9	3407.3	35.0	41.3	3210
3235	13.4	79.2	1	1513.4	3247.1	35.0	34.9	3240
3240	3.7	79.1	1	1503.7	1571.4	35.0	65.5	3235
3245	9.9	80.0	1	1509.9	2945.3	35.0	44.4	3247
3247	6.1	79.8	1	1506.1	2328.4	35.0	57.8	3245
3250	17.6	79.6	1	1517.6	4057.7	35.0	49.7	3245
3252	15.9	79.5	1	1515.9	3753.9	35.0	46.1	3247
3255	14.7	79.2	1	1514.7	5000.0	37.6	42.0	3259
3257	13.4	79.2	1	1513.4	3977.1	35.0	34.9	3259
3259	3.7	79.1	1	1503.7	2710.3	35.0	55.9	3257
3260	10.1	80.7	1	1510.1	3613.6	35.0	35.0	3262
3262	2.7	80.7	1	1502.7	2189.8	35.0	61.3	3260
3265	10.1	80.4	1	1510.1	3462.2	35.0	35.0	3267
3267	2.7	80.4	1	1502.7	2179.1	35.0	59.7	3265
3270	9.9	80.3	1	1509.9	4376.0	35.0	40.0	3275
3275	10.1	80.2	1	1510.1	2438.7	35.0	35.0	3277
3277	2.7	80.3	1	1502.7	1803.7	35.0	53.4	3275
3280	7.4	79.8	1	1507.4	3246.1	35.0	54.5	3275
3285	7.4	80.0	1	1507.4	3271.5	35.0	54.5	3280
3290	26.1	80.1	1	1526.1	3372.3	35.0	54.9	3285
3295	20.1	80.3	1	1520.1	4099.0	35.0	51.9	3290
3300	12.7	79.6	1	1512.7	4714.6	35.0	40.1	3310
3305	8.3	79.4	1	1508.3	3931.3	35.0	34.9	3310

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3310	4.0	79.4	1	1504.0	2742.9	35.0	55.3	3305
3315	8.3	79.4	1	1508.3	3726.0	35.0	34.9	3320
3320	4.0	79.3	1	1504.0	2714.4	35.0	53.5	3315
3325	8.3	79.3	1	1508.3	3919.7	35.0	34.9	3330
3330	4.0	79.3	1	1504.0	2819.6	35.0	54.0	3325
3400	5.4	80.0	1	1505.4	4995.6	35.0	34.9	3405
3405	3.1	80.0	1	1503.1	2094.9	35.0	69.1	3400
3410	7.7	80.2	1	1507.7	5000.0	41.2	41.2	3415
3415	3.1	80.2	1	1503.1	2061.3	35.0	70.8	3410
3420	5.4	80.5	1	1505.4	4562.8	35.0	34.9	3425
3425	3.1	80.4	1	1503.1	2047.7	35.0	68.4	3420
3430	5.4	80.6	1	1505.4	4909.9	35.0	34.9	3435
3435	3.1	80.5	1	1503.1	2078.3	35.0	69.5	3430
3440	9.3	80.8	1	1509.3	4882.3	35.0	60.4	3450
3450	16.1	81.2	1	1516.1	5000.0	42.2	56.1	3460
3460	8.7	81.8	1	1508.7	4085.4	35.0	63.7	3450
3470	8.7	81.7	1	1508.7	2172.3	35.0	72.7	3480
3480	16.1	81.1	1	1516.1	4214.9	35.0	53.8	3470
3490	8.9	80.6	1	1508.9	2508.6	35.0	69.3	3500
3500	10.4	80.4	1	1510.4	5000.0	36.3	42.5	3550
3510	10.1	80.9	1	1510.1	5000.0	37.1	54.1	3550
3520	13.5	81.4	1	1513.5	5000.0	41.2	49.1	3530
3530	12.7	81.2	1	1512.7	4569.6	35.0	55.1	3520
3540	17.4	80.8	1	1517.4	4237.2	35.0	53.7	3550
3550	9.3	80.3	1	1509.3	2504.7	35.0	69.3	3500
3600	9.7	82.1	1	1509.7	4271.6	35.0	67.2	3060
3605	12.4	81.7	1	1512.4	5000.0	63.5	64.4	3060
3610	9.7	82.2	1	1509.7	4246.4	35.0	67.4	3060
3615	9.7	81.9	1	1509.7	5000.0	62.7	64.5	3060
3620	9.7	82.3	1	1509.7	4125.8	35.0	67.8	3060
3625	9.7	82.1	1	1509.7	5000.0	62.9	64.6	3060
3630	9.7	82.6	1	1509.7	2180.9	35.0	74.1	3060
3635	23.6	82.3	1	1523.6	5000.0	50.0	55.8	3685
3640	0.0	82.7	1	1500.0	4085.9	35.0	55.5	3643
3643	0.0	82.5	1	1500.0	4554.6	35.0	35.2	3660
3645	3.5	82.4	1	1503.5	5000.0	45.3	48.7	3643
3650	4.0	83.5	1	1504.0	4442.4	35.0	66.1	440
3660	0.0	82.7	1	1500.0	2228.7	35.0	35.0	3670
3665	22.2	82.6	1	1522.2	5000.0	42.0	49.0	3697
3670	0.0	82.7	1	1500.0	1854.4	35.0	35.1	3680

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3675	0.0	82.7	1	1500.0	5000.0	36.7	52.8	3665
3680	0.0	82.9	1	1500.0	1463.3*	35.0	51.1	3670
3685	6.8	82.0	1	1506.8	4066.5	35.0	55.4	3695
3690	0.0	82.9	1	1500.0	1767.0	35.0	38.8	3670
3695	17.5	82.1	1	1517.5	4858.5	35.0	44.2	3685
3697	17.3	82.3	1	1517.3	4417.8	35.0	52.7	3695
3698	0.0	82.4	1	1500.0	4610.3	35.0	52.4	3695
4000	13.8	79.0	1	1513.8	4027.6	35.0	38.8	4050
4010	11.8	79.1	1	1511.8	3515.8	35.0	53.7	4000
4020	11.8	79.1	1	1511.8	4469.1	35.0	41.4	4030
4030	14.2	78.9	1	1514.2	3353.3	35.0	46.8	4040
4040	8.2	78.9	1	1508.2	3383.5	35.0	46.2	4030
4050	5.9	78.9	1	1505.9	3322.4	35.0	39.6	4060
4060	9.2	78.9	1	1509.2	3152.6	35.0	43.6	4070
4070	17.0	79.0	1	1517.0	3152.7	35.0	43.6	4060
4080	6.2	79.0	1	1506.2	3409.8	35.0	40.6	4070
4100	6.2	79.3	1	1506.2	4502.9	35.0	43.8	14100
4105	14.4	79.5	1	1514.4	5000.0	47.1	48.7	4100
4110	8.3	79.5	1	1508.3	4442.8	35.0	58.4	4105
4115	6.2	79.5	1	1506.2	4558.5	35.0	43.7	14120
4120	14.4	79.6	1	1514.4	5000.0	47.8	49.4	4115
4125	8.3	79.9	1	1508.3	4504.8	35.0	58.5	4120
4130	3.1	79.6	1	1503.1	5000.0	35.3	43.4	14140
4135	11.4	79.7	1	1511.4	5000.0	48.4	51.0	4130
4140	7.4	79.8	1	1507.4	4557.3	35.0	35.1	4150
4145	7.4	79.9	1	1507.4	5000.0	35.4	35.6	4155
4150	4.3	79.9	1	1504.3	2927.2	35.0	58.6	4140
4155	4.3	80.1	1	1504.3	3068.2	35.0	60.3	4145
4200	6.9	80.5	1	1506.9	5000.0	49.0	56.3	4230
4205	6.9	80.7	1	1506.9	5000.0	46.1	55.0	4240
4210	6.9	81.3	1	1506.9	5000.0	49.5	56.7	4250
4220	8.8	80.4	1	1508.8	4663.2	35.0	59.3	4225
4225	22.9	80.2	1	1522.9	5000.0	48.9	53.8	4260
4230	6.9	80.6	1	1506.9	4518.3	35.0	60.1	4235
4235	14.7	80.5	1	1514.7	5000.0	50.1	54.6	4270
4240	6.9	80.8	1	1506.9	4490.7	35.0	59.8	4205
4245	14.7	80.6	1	1514.7	5000.0	50.4	55.1	4240
4250	6.9	81.0	1	1506.9	4563.5	35.0	60.8	4255
4255	14.7	80.8	1	1514.7	5000.0	51.9	56.6	4250
4260	8.8	80.2	1	1508.8	4194.1	35.0	57.9	4267

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4265	12.2	80.0	1	1512.2	5000.0	39.8	39.7	4267
4266	0.0	79.9	1	1500.0	4957.5	35.0	44.2	14170
4267	3.4	79.9	1	1503.4	2923.4	35.0	63.4	4265
4270	7.8	80.4	1	1507.8	4215.5	35.0	58.3	4278
4275	11.2	80.2	1	1511.2	5000.0	41.2	41.0	4278
4278	3.4	80.1	1	1503.4	3143.8	35.0	62.1	4275
4280	7.8	80.6	1	1507.8	4251.6	35.0	59.0	4285
4285	7.8	80.6	1	1507.8	5000.0	42.4	51.1	4280
4290	7.8	81.0	1	1507.8	4320.6	35.0	59.7	4295
4295	7.8	81.0	1	1507.8	5000.0	45.1	52.5	4290
4300	8.2	81.3	1	1508.2	5000.0	43.6	53.8	4310
4310	8.2	81.6	1	1508.2	5000.0	41.4	53.7	4320
4320	8.2	82.0	1	1508.2	5000.0	42.6	53.2	4310
4330	8.2	82.1	1	1508.2	5000.0	47.6	56.3	4320
4340	11.6	81.1	1	1511.6	5000.0	43.0	43.0	4380
4350	11.6	81.5	1	1511.6	5000.0	41.1	41.0	4390
4360	8.2	81.6	1	1508.2	5000.0	42.4	52.8	4390
4370	8.2	81.9	1	1508.2	5000.0	47.3	55.9	4360
4380	3.4	81.1	1	1503.4	3290.9	35.0	62.1	4340
4390	3.4	81.3	1	1503.4	3237.0	35.0	61.9	4350
4400	5.7	82.2	1	1505.7	4004.7	35.0	44.3	4410
4410	11.6	82.2	1	1511.6	3618.6	35.0	49.2	4430
4420	5.9	82.2	1	1505.9	3719.6	35.0	35.0	4430
4430	4.6	82.2	1	1504.6	2403.7	35.0	59.9	4420
4500	19.6	83.2	1	1519.6	5000.0	57.8	62.6	4510
4510	33.6	82.8	1	1533.6	5000.0	58.5	61.3	3675
4520	61.3	82.5	1	1561.3	5000.0	59.7	61.6	3698
4530	8.8	82.4	1	1508.8	5000.0	61.7	63.5	4520
4540	4.8	82.1	1	1504.8	5000.0	65.7	64.7	3060
4550	10.5	82.0	1	1510.5	5000.0	65.0	64.6	4590
4560	4.8	81.9	1	1504.8	5000.0	64.1	63.8	4590
4570	2.7	82.2	1	1502.7	5000.0	64.0	63.4	4590
4580	2.7	82.2	1	1502.7	5000.0	62.6	62.1	4590
4590	2.7	81.6	1	1502.7	5000.0	60.9	62.8	4580
4600	12.7	83.5	1	1512.7	3444.7	35.0	48.0	4610
4610	0.0	83.3	1	1500.0	3137.7	35.0	54.5	4600
4620	0.0	83.0	1	1500.0	3463.1	35.0	48.1	4610
4700	2.6	83.8	1	1502.6	5000.0	59.0	61.1	4710
4710	25.0	83.5	1	1525.0	5000.0	58.0	61.5	4700
4720	22.3	83.4	1	1522.3	5000.0	56.7	58.5	4730

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4730	0.0	83.2	1	1500.0	5000.0	57.3	58.5	4720
4740	23.2	83.3	1	1523.2	5000.0	57.9	60.3	4750
4750	6.2	83.3	1	1506.2	5000.0	59.1	59.9	4740
4800	55.4	84.5	1	1555.4	5000.0	61.3	62.5	620
4810	11.6	84.2	1	1511.6	5000.0	38.1	40.2	4870
4820	0.0	84.1	1	1500.0	4182.0	35.0	57.7	4830
4830	0.0	83.9	1	1500.0	4935.4	35.0	47.8	4820
4840	0.0	83.4	1	1500.0	4136.4	35.0	58.9	4830
4850	0.2	83.7	1	1500.2	4870.3	35.0	35.0	4870
4870	65.2	83.7	1	1565.2	1256.8*	35.0	76.0	3060
4880	0.0	83.6	1	1500.0	4915.7	35.0	52.9	4830
4900	45.5	85.1	1	1545.5	5000.0	61.9	62.6	630
4910	6.9	85.1	1	1506.9	5000.0	60.1	61.2	4920
4920	0.0	85.2	1	1500.0	5000.0	60.5	61.1	4910
4930	1.0	85.2	1	1501.0	5000.0	60.5	61.3	640
4940	54.7	85.3	1	1554.7	5000.0	56.5	57.5	4947
4947	14.5	85.2	1	1514.5	5000.0	49.8	50.2	5190
4950	1.5	85.1	1	1501.5	5000.0	57.3	59.6	4960
4955	14.5	85.1	1	1514.5	4815.8	35.0	61.9	4947
4960	1.5	84.7	1	1501.5	5000.0	56.3	57.1	5180
5065	4.6	84.7	1	1504.6	5000.0	55.8	55.7	5180
4970	0.0	84.3	1	1500.0	5000.0	55.2	56.6	5110
4975	18.2	84.2	1	1518.2	5000.0	55.8	57.0	5120
4977	6.8	84.8	1	1506.8	5000.0	55.7	58.5	4975
4980	6.8	85.0	1	1506.8	5000.0	58.8	59.8	4977
4985	6.8	84.8	1	1506.8	5000.0	58.1	59.2	5170
4990	31.0	84.7	1	1531.0	5000.0	59.0	59.3	5150
4995	0.0	85.1	1	1500.0	5000.0	57.9	58.5	5200
5000	14.9	81.4	1	1514.9	5000.0	65.8	64.0	3060
5010	0.0	81.7	1	1500.0	5000.0	65.9	64.3	3060
5020	0.0	82.1	1	1500.0	5000.0	66.4	64.5	3060
5030	7.9	82.3	1	1507.9	5000.0	67.2	64.8	3060
5040	0.0	82.9	1	1500.0	5000.0	68.1	65.2	3060
5050	0.0	82.9	1	1500.0	5000.0	66.1	65.2	3060
5060	0.0	83.1	1	1500.0	5000.0	64.5	65.3	3060
5070	0.0	83.7	1	1500.0	5000.0	62.5	63.3	5080
5080	0.0	84.1	1	1500.0	5000.0	61.6	62.1	5130
5090	0.0	85.1	1	1500.0	5000.0	60.7	60.9	6000
5100	0.0	84.4	1	1500.0	4204.1	35.0	65.7	4960
5110	7.5	84.4	1	1507.5	4237.5	35.0	57.9	5120

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
5120	10.5	84.2	1	1510.5	5000.0	37.4	48.9	5110
5130	10.5	83.4	1	1510.5	4168.2	35.0	54.0	5140
5140	16.7	83.8	1	1516.7	5000.0	35.3	41.2	5130
5150	6.8	84.0	1	1506.8	4532.2	35.0	54.4	5140
5160	9.3	84.2	1	1509.3	5000.0	42.4	52.1	5140
5170	6.8	84.7	1	1506.8	4637.6	35.0	56.5	5160
5180	7.7	84.6	1	1507.7	4832.4	35.0	57.3	4965
5190	6.2	85.1	1	1506.2	5000.0	37.5	51.4	4947
5200	5.0	85.1	1	1505.0	5000.0	56.9	57.6	5240
5205	5.0	85.2	1	1505.0	5000.0	54.8	57.1	5210
5210	10.1	85.3	1	1510.1	5000.0	55.5	56.6	5250
5215	5.0	85.4	1	1505.0	3224.7	35.0	71.3	5220
5220	5.0	85.5	1	1505.0	5000.0	54.6	56.5	5215
5230	5.3	85.4	1	1505.3	5000.0	54.0	56.9	5220
5235	62.3	85.2	1	1562.3	5000.0	54.2	57.3	5230
5240	3.8	85.0	1	1503.8	2723.9	35.0	71.7	5250
5250	7.7	85.1	1	1507.7	4496.4	35.0	53.6	5240
5255	7.6	85.2	1	1507.6	2728.5	35.0	72.8	3060
5260	15.1	85.4	1	1515.1	5000.0	55.4	57.0	5277
5265	7.6	85.6	1	1507.6	5000.0	56.2	57.7	5220
5270	1.4	85.4	1	1501.4	4289.7	35.0	34.9	5277
5277	0.0	85.3	1	1500.0	1777.0	35.0	73.3	5270
5279	16.6	85.5	1	1516.6	4119.6	35.0	46.9	5280
5280	54.0	85.5	1	1554.0	4497.7	35.0	39.3	5279
5290	0.0	85.9	1	1500.0	3485.3	35.0	62.0	5280
5292	0.0	85.6	1	1500.0	2980.6	35.0	69.5	5297
5295	3.7	85.9	1	1503.7	4473.9	35.0	41.5	23120
5297	0.0	84.8	1	1500.0	4973.5	35.0	41.7	23200
5500	4.8	82.2	1	1504.8	5000.0	38.4	59.8	5530
5510	4.8	82.1	1	1504.8	5000.0	36.9	57.3	5540
5520	4.8	82.0	1	1504.8	4759.3	35.0	50.5	5550
5530	4.8	82.8	1	1504.8	5000.0	50.0	58.1	5500
5540	4.8	82.7	1	1504.8	5000.0	45.9	51.6	5550
5550	4.8	82.7	1	1504.8	4685.4	35.0	50.9	5520
6000	0.0	85.1	1	1500.0	5000.0	59.5	59.8	5297
7000	9.3	82.5	1	1509.3	5000.0	69.0	67.0	3060
7005	9.3	82.7	1	1509.3	5000.0	68.7	67.1	3060
7010	26.2	82.9	1	1526.2	5000.0	68.3	67.1	3060
7015	18.5	83.1	1	1518.5	5000.0	67.7	67.1	3060
7020	13.8	83.4	1	1513.8	5000.0	67.2	66.3	7025

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7025	5.9	82.2	1	1505.9	5000.0	65.4	65.6	7030
7030	13.8	82.3	1	1513.8	5000.0	65.3	65.3	9320
7035	23.3	82.8	1	1523.3	5000.0	64.0	64.7	9380
7040	1.0	83.4	1	1501.0	5000.0	64.1	64.1	9380
7045	0.0	83.6	1	1500.0	5000.0	63.6	63.3	9380
7050	10.9	83.9	1	1510.9	5000.0	63.5	63.4	9380
7055	10.9	84.0	1	1510.9	5000.0	63.4	63.6	9380
7060	0.0	84.6	1	1500.0	5000.0	63.6	63.4	7070
7070	0.0	84.1	1	1500.0	5000.0	62.2	62.5	8775
7080	2.0	83.8	1	1502.0	5000.0	53.9	55.7	7475
7100	9.9	82.1	1	1509.9	4333.0	35.0	69.1	3060
7110	7.4	82.8	1	1507.4	3535.9	35.0	44.5	7140
7120	11.7	83.0	1	1511.7	5000.0	44.7	47.9	7150
7130	12.4	83.4	1	1512.4	4673.6	35.0	54.2	7160
7140	7.4	82.4	1	1507.4	2552.7	35.0	63.4	7110
7150	11.7	82.9	1	1511.7	4304.5	35.0	50.6	7140
7160	12.4	83.6	1	1512.4	3566.9	35.0	65.5	7130
7200	7.9	82.2	1	1507.9	5000.0	63.1	63.6	7210
7210	7.3	82.2	1	1507.3	5000.0	62.5	63.6	7200
7300	2.1	82.2	1	1502.1	4188.1	35.0	53.4	7340
7310	6.2	82.4	1	1506.2	5000.0	41.3	55.3	7300
7320	6.2	82.6	1	1506.2	5000.0	43.0	49.0	7330
7330	5.2	82.3	1	1505.2	4393.2	35.0	57.4	7340
7340	5.2	82.6	1	1505.2	4991.9	35.0	40.9	7300
7350	6.2	83.0	1	1506.2	5000.0	45.3	53.5	7370
7360	7.8	83.3	1	1507.8	3924.5	35.0	56.6	7380
7370	6.2	82.8	1	1506.2	5000.0	38.0	51.1	7410
7380	7.8	83.1	1	1507.8	3558.9	35.0	56.4	7425
7390	1.9	82.7	1	1501.9	1275.2*	35.0	55.4	7425
7400	12.1	82.5	1	1512.1	4820.9	35.0	47.9	7405
7405	12.1	82.0	1	1512.1	2132.7	35.0	74.4	7400
7410	21.9	82.4	1	1521.9	5000.0	38.2	51.2	7440
7415	13.1	83.0	1	1513.1	3410.2	34.7	34.2	7425
7420	15.1	82.7	1	1515.1	1771.9	35.0	34.8	7425
7425	6.7	82.5	1	1506.7	1078.7*	35.0	35.5	7450
7430	12.1	82.4	1	1512.1	4695.4	35.0	47.4	7435
7435	12.1	82.1	1	1512.1	2130.2	35.0	73.9	7430
7440	20.0	82.3	1	1520.0	5000.0	38.2	50.4	7435
7445	14.8	82.8	1	1514.8	3405.6	34.7	57.0	7425
7450	9.1	83.0	1	1509.1	819.9*	35.0	53.1	7425

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7455	12.1	82.4	1	1512.1	4708.1	35.0	47.1	7460
7460	12.1	82.1	1	1512.1	2133.2	35.0	73.7	7455
7465	19.6	82.4	1	1519.6	5000.0	39.8	50.8	7460
7470	14.8	82.8	1	1514.8	3533.8	35.0	57.5	7445
7475	0.4	83.6	1	1500.4	1436.1*	35.0	71.0	7500
7480	13.8	82.4	1	1513.8	4946.8	35.0	46.2	7485
7485	12.1	82.1	1	1512.1	2136.8	35.0	74.0	7480
7490	24.9	82.6	1	1524.9	5000.0	43.6	52.5	7485
7495	20.6	82.9	1	1520.6	4484.8	35.0	54.5	7470
7500	10.8	83.6	1	1510.8	3221.2	35.0	34.9	7475
7505	4.3	82.5	1	1504.3	5000.0	39.5	47.2	7480
7510	8.7	82.5	1	1508.7	4725.9	35.0	53.0	7530
7515	8.7	82.8	1	1508.7	5000.0	47.0	53.9	7490
7520	8.7	83.3	1	1508.7	5000.0	43.4	56.7	7540
7525	6.0	83.8	1	1506.0	5000.0	39.7	58.7	7545
7530	4.3	82.9	1	1504.3	4030.5	35.0	56.3	7555
7535	8.7	83.1	1	1508.7	4486.1	35.0	59.7	7565
7540	8.7	83.4	1	1508.7	4287.0	35.0	50.6	7545
7545	4.3	83.6	1	1504.3	2255.0	35.0	71.2	7575
7550	8.7	82.8	1	1508.7	5000.0	37.5	54.5	7505
7555	8.7	82.9	1	1508.7	4143.7	35.0	54.8	7530
7560	8.7	83.1	1	1508.7	5000.0	35.6	51.1	7577
7565	17.3	83.3	1	1517.3	4096.1	35.0	56.1	7590
7570	17.3	83.5	1	1517.3	3935.7	35.0	49.4	7575
7573	8.7	84.0	1	1508.7	5000.0	50.9	57.9	7550
7575	8.7	83.8	1	1508.7	2081.0	35.0	73.0	7570
7577	8.7	83.2	1	1508.7	5000.0	44.9	49.6	7560
7580	0.0	83.3	1	1500.0	5000.0	55.9	56.3	7605
7585	8.7	83.3	1	1508.7	5000.0	43.3	54.0	7577
7590	16.4	83.6	1	1516.4	3273.9	35.0	65.4	7565
7595	16.4	83.7	1	1516.4	4205.3	35.0	60.2	7570
7600	8.2	83.9	1	1508.2	3964.8	35.0	60.6	7625
7605	6.6	83.7	1	1506.6	2379.6	35.0	74.0	3060
7610	7.7	83.6	1	1507.7	5000.0	49.0	57.1	7615
7615	15.5	83.7	1	1515.5	3953.6	35.0	64.9	7620
7620	15.7	83.9	1	1515.7	5000.0	41.5	54.1	7615
7625	7.9	84.1	1	1507.9	5000.0	43.2	46.8	7600
7700	15.5	83.9	1	1515.5	5000.0	67.6	65.8	3060
7705	14.7	84.1	1	1514.7	2202.6	35.0	74.3	3060
7710	14.6	84.5	1	1514.6	5000.0	49.3	59.0	7705

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7715	7.7	84.6	1	1507.7	4432.1	35.0	66.1	7735
7720	22.3	84.2	1	1522.3	5000.0	67.4	65.8	3060
7725	16.5	84.5	1	1516.5	2222.5	35.0	74.2	3060
7730	13.1	84.6	1	1513.1	5000.0	46.0	55.7	7735
7735	6.7	84.7	1	1506.7	2184.0	35.0	74.3	3060
7740	12.9	84.4	1	1512.9	5000.0	67.2	65.8	3060
7745	12.5	84.7	1	1512.5	5000.0	41.7	65.6	7750
7750	17.2	84.6	1	1517.2	5000.0	53.3	61.4	7770
7755	13.4	84.6	1	1513.4	5000.0	42.1	45.2	8700
7760	21.0	84.5	1	1521.0	5000.0	64.7	65.7	3060
7765	22.4	84.5	1	1522.4	2190.3	35.0	74.3	3060
7770	22.1	84.6	1	1522.1	5000.0	45.2	56.9	7765
7775	9.7	84.7	1	1509.7	3027.7	35.0	72.0	7755
7780	20.8	84.5	1	1520.8	5000.0	64.0	65.3	7805
7785	23.9	84.5	1	1523.9	2209.6	35.0	74.2	3060
7790	23.5	84.5	1	1523.5	5000.0	44.5	56.0	7785
7795	8.3	84.7	1	1508.3	3031.8	35.0	72.2	3060
7800	3.6	84.6	1	1503.6	5000.0	64.5	65.7	3060
7805	1.2	84.6	1	1501.2	5000.0	64.0	65.4	7780
7810	1.2	84.6	1	1501.2	2318.1	35.0	49.3	7815
7815	1.5	84.6	1	1501.5	2439.0	35.0	45.1	7810
7820	4.0	84.6	1	1504.0	5000.0	49.6	60.5	7815
7825	2.5	85.6	1	1502.5	5000.0	56.9	61.2	7915
7830	6.2	84.8	1	1506.2	5000.0	54.2	60.4	7835
7835	2.0	84.7	1	1502.0	2214.0	35.0	74.2	3060
7840	4.6	84.8	1	1504.6	5000.0	53.6	60.6	7835
7845	3.6	85.0	1	1503.6	5000.0	62.9	63.0	7937
7850	5.7	84.9	1	1505.7	5000.0	43.1	51.3	7855
7855	3.2	84.8	1	1503.2	3658.8	35.0	42.0	7860
7860	3.1	85.0	1	1503.1	3626.4	35.0	43.0	7855
7865	3.1	85.0	1	1503.1	4236.8	35.0	35.1	7870
7870	5.2	85.0	1	1505.2	2790.3	35.0	60.1	7865
7900	14.7	84.6	1	1514.7	5000.0	65.6	65.7	3060
7905	12.9	84.5	1	1512.9	5000.0	59.0	64.7	7910
7910	12.3	84.6	1	1512.3	5000.0	61.7	63.8	7820
7915	2.5	84.7	1	1502.5	5000.0	60.7	60.9	7917
7917	0.0	84.9	1	1500.0	1433.0*	35.0	75.7	3060
7920	6.3	84.7	1	1506.3	5000.0	63.7	65.2	7925
7925	6.2	84.6	1	1506.2	5000.0	58.6	65.0	7930
7930	6.2	84.7	1	1506.2	5000.0	62.3	64.6	7925

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7935	4.6	84.9	1	1504.6	5000.0	63.1	64.3	7915
7937	0.3	85.0	1	1500.3	4206.7	35.0	67.8	7845
7940	13.3	84.8	1	1513.3	5000.0	62.4	64.7	7945
7945	13.3	84.8	1	1513.3	5000.0	58.9	65.0	7940
7950	10.2	84.9	1	1510.2	5000.0	64.1	64.5	9910
7955	5.6	85.0	1	1505.6	5000.0	65.1	64.3	9910
8000	8.7	84.9	1	1508.7	4120.7	35.0	41.4	8005
8005	10.1	84.9	1	1510.1	1962.7	35.0	63.2	8010
8010	8.3	85.0	1	1508.3	2256.0	35.0	35.0	8015
8015	2.6	85.0	1	1502.6	962.7*	35.0	72.8	8010
8020	8.7	85.0	1	1508.7	4701.1	35.0	37.1	8000
8025	10.5	85.0	1	1510.5	2042.2	35.0	67.2	8035
8030	13.4	85.0	1	1513.4	2734.7	35.0	34.7	8035
8035	7.3	84.8	1	1507.3	1156.5*	35.0	72.8	8030
8040	16.1	85.1	1	1516.1	5000.0	50.2	51.1	8045
8045	16.1	85.1	1	1516.1	5000.0	41.0	44.3	8050
8050	13.6	85.3	1	1513.6	5000.0	37.0	38.6	8055
8055	5.6	85.6	1	1505.6	4566.0	35.0	40.8	8200
8060	13.0	85.2	1	1513.0	4208.7	35.0	35.1	8075
8065	9.3	85.2	1	1509.3	2707.0	35.0	43.1	8090
8070	12.4	85.4	1	1512.4	2425.9	35.0	64.0	8065
8075	10.4	85.4	1	1510.4	1394.2*	35.0	75.7	3060
8080	5.3	85.4	1	1505.3	2401.7	35.0	35.0	8085
8085	5.3	85.4	1	1505.3	875.6*	35.0	76.0	8080
8090	68.5	85.7	1	1568.5	2383.4	35.0	43.4	8140
8095	11.4	86.2	1	1511.4	2362.8	35.0	34.5	8140
8100	0.0	85.8	1	1500.0	2734.3	35.0	38.6	8105
8105	7.5	85.9	1	1507.5	2530.6	35.0	35.7	8145
8110	4.7	86.1	1	1504.7	2303.5	35.0	35.0	8145
8115	4.7	86.2	1	1504.7	2455.8	35.0	35.2	8125
8120	7.5	86.4	1	1507.5	2297.5	35.0	35.1	8130
8125	1.5	86.4	1	1501.5	2162.5	35.0	44.9	8115
8130	1.5	86.5	1	1501.5	2021.6	35.0	45.0	8120
8135	3.3	86.0	1	1503.3	2390.1	35.0	39.4	8140
8140	0.6	85.7	1	1500.6	1979.7	35.0	48.2	8095
8145	19.8	86.1	1	1519.8	1849.9	35.0	50.8	8110
8200	0.6	85.8	1	1500.6	3660.8	35.0	35.2	8205
8205	0.6	86.0	1	1500.6	1595.0	35.0	35.2	8210
8210	0.0	86.3	1	1500.0	1148.4*	35.0	57.4	8205
8215	8.9	86.2	1	1508.9	3353.7	35.0	41.1	8230

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8220	14.2	86.6	1	1514.2	2124.4	35.0	69.5	8215
8225	12.3	86.7	1	1512.3	4088.9	35.0	35.6	8240
8230	14.2	86.5	1	1514.2	2968.2	35.0	37.3	8250
8235	14.2	86.7	1	1514.2	2060.4	35.0	67.3	8230
8240	14.2	86.9	1	1514.2	3848.6	35.0	35.3	8265
8250	7.1	86.7	1	1507.1	2479.3	35.0	51.4	8255
8255	7.1	86.8	1	1507.1	1990.9	35.0	35.6	8270
8260	7.1	86.8	1	1507.1	2001.3	35.0	35.3	8295
8265	11.7	87.1	1	1511.7	3585.4	35.0	40.7	8260
8270	3.7	86.8	1	1503.7	1842.7	35.0	37.4	8275
8275	3.7	86.9	1	1503.7	1831.4	35.0	35.6	8280
8280	3.7	87.0	1	1503.7	1757.5	35.0	37.1	8285
8285	5.7	87.0	1	1505.7	1758.2	35.0	37.0	8280
8290	5.7	87.0	1	1505.7	1842.1	35.0	35.3	8285
8295	1.0	86.9	1	1501.0	1899.6	35.0	36.3	8290
8300	2.7	86.0	1	1502.7	4778.0	35.0	38.4	8310
8310	0.0	86.4	1	1500.0	4525.8	35.0	36.5	8320
8320	0.6	86.7	1	1500.6	4186.5	35.0	35.1	8360
8330	0.0	86.6	1	1500.0	2853.9	35.0	40.8	8350
8340	0.0	86.6	1	1500.0	2303.7	35.0	35.0	8350
8350	3.1	86.6	1	1503.1	1024.9*	35.0	73.6	8340
8360	0.0	86.8	1	1500.0	2114.1	35.0	35.0	8370
8370	0.0	86.8	1	1500.0	1600.4	35.0	54.6	8360
8380	4.6	86.4	1	1504.6	2063.3	35.0	62.3	8350
8400	5.1	84.6	1	1505.1	5000.0	57.6	63.7	8410
8410	0.4	84.7	1	1500.4	5000.0	49.4	50.9	8430
8420	0.0	84.7	1	1500.0	5000.0	56.8	56.9	8450
8430	0.4	84.6	1	1500.4	3414.6	35.0	40.1	8440
8440	0.7	84.7	1	1500.7	3037.2	35.0	35.1	8460
8450	0.6	84.8	1	1500.6	5000.0	45.8	54.2	8440
8460	0.8	84.9	1	1500.8	555.4*	35.0	35.1	8470
8470	0.8	84.9	1	1500.8	519.1*	35.0	40.8	8460
8500	0.8	84.6	1	1500.8	5000.0	58.9	60.7	8510
8510	1.1	84.7	1	1501.1	5000.0	56.9	56.9	8515
8515	0.0	84.7	1	1500.0	1648.1	35.0	75.3	3060
8520	0.6	85.0	1	1500.6	5000.0	54.8	54.6	8525
8525	4.8	84.9	1	1504.8	1635.5	35.0	75.3	3060
8530	0.2	85.0	1	1500.2	5000.0	54.3	56.1	8540
8540	2.1	85.1	1	1502.1	5000.0	54.4	56.0	8530
8550	16.0	85.4	1	1516.0	5000.0	56.1	55.7	8560

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8560	15.8	85.1	1	1515.8	2476.1	35.0	73.6	3060
8600	4.6	84.6	1	1504.6	3899.2	35.0	64.3	8610
8610	14.9	84.9	1	1514.9	4542.5	35.0	58.0	8600
8620	5.0	85.0	1	1505.0	4673.0	35.0	57.5	8600
8630	16.2	85.1	1	1516.2	4454.0	35.0	60.2	8650
8640	1.1	85.1	1	1501.1	4219.0	35.0	51.6	8660
8650	6.4	85.3	1	1506.4	4318.0	35.0	56.9	8640
8660	0.7	85.3	1	1500.7	4544.7	35.0	46.4	8640
8670	2.8	85.4	1	1502.8	4614.2	35.0	48.6	8660
8680	4.6	85.5	1	1504.6	4216.1	35.0	64.7	8560
8690	0.0	86.1	1	1500.0	5000.0	51.8	62.7	9910
8700	5.2	84.6	1	1505.2	5000.0	41.0	45.5	7755
8710	7.4	84.5	1	1507.4	1737.2	35.0	75.2	3060
8720	3.3	84.6	1	1503.3	1611.2	35.0	75.3	3060
8725	6.2	84.4	1	1506.2	1266.5*	35.0	76.1	3060
8730	3.8	84.6	1	1503.8	1379.9*	35.0	75.9	3060
8735	7.6	84.5	1	1507.6	1176.5*	35.0	76.3	3060
8740	5.4	84.1	1	1505.4	4930.9	35.0	35.3	8745
8745	5.4	84.5	1	1505.4	998.0*	35.0	76.7	3060
8750	5.3	84.5	1	1505.3	4450.4	35.0	46.7	8740
8760	6.8	84.2	1	1506.8	4032.8	35.0	34.4	8770
8765	2.0	84.6	1	1502.0	1109.4*	35.0	76.5	3060
8770	1.5	83.6	1	1501.5	1140.5*	35.0	76.5	3060
8775	4.6	84.1	1	1504.6	5000.0	52.3	58.6	8770
8800	0.6	84.4	1	1500.6	1182.5*	35.0	76.3	3060
8810	7.3	84.6	1	1507.3	3549.7	35.0	59.8	8820
8820	8.7	84.5	1	1508.7	3338.4	35.0	56.3	8830
8830	2.9	84.6	1	1502.9	2964.9	35.0	44.7	8845
8840	1.0	84.6	1	1501.0	2010.9	35.0	35.0	8845
8845	1.0	84.6	1	1501.0	1659.4	35.0	49.2	8840
8850	1.3	84.8	1	1501.3	1926.8	35.0	59.5	8845
8900	9.8	85.0	1	1509.8	5000.0	59.6	58.6	9910
8910	17.8	84.8	1	1517.8	5000.0	54.8	55.5	8920
8920	8.0	84.6	1	1508.0	5000.0	50.6	51.1	8930
8930	4.9	84.5	1	1504.9	5000.0	45.1	45.8	8940
8940	0.3	84.4	1	1500.3	5000.0	40.8	42.2	8950
8950	0.3	84.2	1	1500.3	5000.0	36.6	39.6	8960
8960	1.8	83.7	1	1501.8	4854.8	35.0	35.7	9190
8970	1.2	84.9	1	1501.2	5000.0	39.3	39.4	8975
8975	3.3	85.0	1	1503.3	4595.6	35.0	45.3	8970

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8980	40.7	84.7	1	1540.7	5000.0	51.2	51.5	8970
9000	2.7	86.4	1	1502.7	5000.0	49.5	51.3	9010
9010	0.1	86.3	1	1500.1	5000.0	44.7	48.6	9685
9020	0.0	86.3	1	1500.0	5000.0	40.6	40.5	9685
9030	0.8	86.2	1	1500.8	5000.0	39.6	45.0	9685
9040	0.0	86.1	1	1500.0	5000.0	41.0	45.8	9050
9050	0.0	86.0	1	1500.0	5000.0	43.1	44.8	9060
9060	6.3	85.9	1	1506.3	5000.0	43.2	44.8	9050
9070	7.0	85.8	1	1507.0	5000.0	43.4	46.3	9080
9080	7.0	85.4	1	1507.0	5000.0	43.3	46.6	9090
9090	3.6	85.2	1	1503.6	5000.0	43.3	44.9	9100
9100	7.8	85.1	1	1507.8	5000.0	43.3	44.7	9115
9110	0.0	84.9	1	1500.0	5000.0	41.7	41.5	9115
9115	3.1	84.7	1	1503.1	4073.6	35.0	53.8	9110
9120	2.9	84.7	1	1502.9	5000.0	39.7	41.8	9910
9130	2.9	84.3	1	1502.9	4962.1	35.0	34.4	9910
9140	1.1	84.1	1	1501.1	4643.1	35.0	33.3	9910
9150	6.2	84.1	1	1506.2	4868.9	35.0	35.1	9910
9160	0.0	84.1	1	1500.0	4890.2	35.0	37.4	9910
9170	0.0	84.1	1	1500.0	4973.6	35.0	35.9	9160
9175	5.0	84.4	1	1505.0	3435.3	35.0	55.2	9505
9180	0.0	84.0	1	1500.0	4843.9	35.0	39.7	9190
9190	0.0	83.7	1	1500.0	4840.3	35.0	36.0	8960
9200	5.5	84.5	1	1505.5	4280.0	35.0	48.7	9210
9210	5.5	84.6	1	1505.5	4000.1	35.0	49.6	9240
9220	4.8	84.2	1	1504.8	4851.0	35.0	53.3	9230
9230	7.0	84.3	1	1507.1	5000.0	40.7	44.9	9240
9240	2.6	84.4	1	1502.6	4334.9	35.0	43.3	9210
9250	5.0	83.9	1	1505.0	4950.1	35.0	54.9	9260
9260	7.3	84.0	1	1507.3	5000.0	44.9	53.1	9250
9270	4.8	83.6	1	1504.8	4515.8	35.0	54.0	9280
9280	6.4	83.6	1	1506.4	5000.0	39.7	40.4	9340
9300	0.0	82.4	1	1500.0	4255.7	35.0	48.0	9310
9310	0.0	82.6	1	1500.0	4288.2	35.0	47.4	9300
9320	2.8	82.2	1	1502.8	4325.1	35.0	58.9	9330
9330	14.7	82.4	1	1514.7	5000.0	36.3	44.1	9310
9333	2.3	82.5	1	1502.3	4998.2	35.0	40.4	9800
9337	3.4	82.5	1	1503.4	4566.2	35.0	39.0	9810
9340	5.4	83.3	1	1505.4	5000.0	35.1	37.0	9345
9345	3.5	83.3	1	1503.5	3869.4	35.0	46.0	9355

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9350	6.3	82.9	1	1506.3	4430.5	35.0	41.1	9355
9355	5.0	83.1	1	1505.0	4093.3	35.0	38.4	9365
9360	7.2	82.7	1	1507.2	4285.8	35.0	39.8	9380
9365	1.4	83.2	1	1501.4	3708.0	35.0	42.5	9385
9370	4.5	82.7	1	1504.5	4335.9	35.0	35.6	9380
9375	5.9	82.7	1	1505.9	3790.7	35.0	38.0	9385
9380	5.3	82.6	1	1505.3	3724.6	35.0	43.6	9390
9385	1.5	82.7	1	1501.5	3656.3	35.0	41.3	9375
9390	6.2	82.7	1	1506.2	3407.0	34.7	34.7	9395
9395	3.5	82.7	1	1503.5	2716.6	35.0	50.5	9390
9400	11.3	81.7	1	1511.3	5000.0	62.9	62.9	9415
9410	0.0	82.1	1	1500.0	5000.0	47.5	47.0	9415
9415	1.5	81.7	1	1501.5	3833.7	35.0	44.9	9425
9420	8.3	82.6	1	1508.3	4489.6	35.0	35.4	9490
9425	1.5	81.7	1	1501.5	3782.7	35.0	45.9	9415
9430	0.0	83.0	1	1500.0	3999.1	35.0	35.0	9490
9440	22.3	83.0	1	1522.3	3565.1	35.0	35.0	9490
9460	3.7	81.5	1	1503.7	5000.0	63.3	63.6	9415
9470	2.9	81.5	1	1502.9	5000.0	63.8	63.8	9480
9480	0.0	81.5	1	1500.0	3908.5	35.0	69.0	9470
9490	6.7	83.0	1	1506.7	2637.8	35.0	54.7	9440
9500	7.7	84.6	1	1507.7	3129.9	35.0	62.3	9510
9505	2.8	84.8	1	1502.8	4076.7	35.0	42.7	9175
9510	12.1	84.9	1	1512.1	3764.4	35.0	35.1	9513
9513	0.0	85.0	1	1500.0	686.5*	35.0	77.3	3060
9515	7.9	85.0	1	1507.9	4126.8	35.0	44.5	9600
9520	13.7	85.2	1	1513.7	2141.2	35.0	72.6	9525
9525	4.3	85.1	1	1504.3	3689.4	35.0	47.4	9605
9530	13.2	85.3	1	1513.2	2166.0	35.0	73.7	9535
9535	10.8	85.3	1	1510.8	3931.1	35.0	48.8	9770
9540	12.3	85.4	1	1512.3	2163.9	35.0	74.4	3060
9545	17.1	85.5	1	1517.1	4254.8	35.0	48.1	9780
9550	0.0	85.4	1	1500.0	2949.4	35.0	68.3	9555
9555	7.5	85.5	1	1507.5	4076.8	35.0	45.8	9570
9560	15.0	85.8	1	1515.0	4531.9	35.0	45.4	9640
9565	228.7	85.5	1	1728.7	4594.6	35.0	49.0	9570
9570	0.0	85.6	1	1500.0	4332.1	35.0	36.7	9585
9580	0.2	86.1	1	1500.2	1561.5	35.0	75.4	3060
9585	6.2	85.7	1	1506.2	3671.3	35.0	49.9	9570
9590	4.1	85.8	1	1504.1	1920.3	35.0	35.0	9595

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
10040	7.4	84.4	1	1507.4	5000.0	66.1	65.1	9910
10050	10.0	84.5	1	1510.0	5000.0	65.7	64.6	9910
10060	7.7	84.6	1	1507.7	5000.0	65.5	64.2	9910
10070	0.0	84.6	1	1500.0	5000.0	65.2	63.8	9910
10080	4.6	84.6	1	1504.6	5000.0	65.1	63.5	9910
10090	0.3	84.5	1	1500.3	5000.0	64.6	63.0	9910
10100	5.7	84.6	1	1505.7	5000.0	64.1	62.4	9910
10110	5.8	84.6	1	1505.8	5000.0	63.7	61.9	9910
10115	3.2	84.6	1	1503.2	5000.0	63.6	61.8	9910
10120	5.2	85.0	1	1505.2	5000.0	63.5	61.1	9910
10130	5.4	85.2	1	1505.4	5000.0	63.5	61.2	9910
10140	10.3	85.3	1	1510.3	5000.0	63.5	61.3	9910
10150	0.0	85.4	1	1500.0	5000.0	63.6	61.4	9910
10160	29.4	85.5	1	1529.4	5000.0	63.7	61.5	9910
10170	6.1	85.6	1	1506.1	5000.0	63.8	61.7	9910
10180	1.8	85.9	1	1501.8	5000.0	64.0	61.8	9910
10185	21.7	85.9	1	1521.7	5000.0	64.0	61.8	9910
10190	2.8	86.3	1	1502.8	5000.0	64.9	62.1	9910
10195	0.0	86.2	1	1500.0	5000.0	64.9	62.6	9910
10200	18.2	85.9	1	1518.2	5000.0	65.4	63.1	9910
10210	23.3	85.2	1	1523.3	5000.0	65.0	63.8	9910
14100	6.2	79.3	1	1506.2	4054.0	35.0	50.5	4100
14110	9.3	79.2	1	1509.3	5000.0	37.5	37.4	14115
14115	3.1	79.2	1	1503.1	3001.7	35.0	61.2	14110
14120	6.2	79.4	1	1506.2	4077.0	35.0	50.9	4115
14130	9.3	79.3	1	1509.3	5000.0	38.0	37.9	14135
14135	3.1	79.2	1	1503.1	3045.9	35.0	61.0	14130
14140	5.4	79.6	1	1505.4	4875.6	35.0	39.6	14160
14150	3.9	79.5	1	1503.9	5000.0	36.7	47.1	14170
14160	8.5	79.7	1	1508.5	4045.3	35.0	51.5	14140
14170	8.5	79.6	1	1508.5	5000.0	36.2	43.6	4266
23000	0.5	86.0	1	1500.5	5000.0	58.7	58.5	5297
23010	0.0	86.0	1	1500.0	5000.0	57.6	57.5	5297
23020	0.0	87.3	1	1500.0	5000.0	55.3	55.8	23030
23030	0.0	87.8	1	1500.0	5000.0	52.7	53.2	23040
23040	1.5	88.2	1	1501.5	5000.0	49.7	52.7	23030
23050	0.0	86.0	1	1500.0	5000.0	56.7	56.4	5297
23060	0.0	86.4	1	1500.0	5000.0	56.5	55.4	5297
23070	6.5	86.7	1	1506.5	5000.0	55.0	53.8	5297
23100	0.0	87.3	1	1500.0	5000.0	54.4	53.7	5297

\* Needed Fire Flow not attained.





Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
-----								
23110	52.5	86.8	1	1552.5	4846.5	35.0	41.4	23120
23120	3.3	86.6	1	1503.3	4508.5	35.0	40.3	5295
23200	0.0	86.4	1	1500.0	5000.0	39.2	39.1	5297
23210	0.0	86.4	1	1500.0	5000.0	43.3	43.9	5297
23220	0.0	87.1	1	1500.0	5000.0	49.3	48.9	5297
23230	6.5	87.5	1	1506.5	5000.0	48.1	50.0	23240
23240	7.7	87.7	1	1507.7	5000.0	43.4	45.5	23540
23400	0.0	86.4	1	1500.0	5000.0	53.6	55.7	23410
23410	0.0	86.4	1	1500.0	5000.0	52.3	55.9	23400
23420	0.0	86.9	1	1500.0	5000.0	53.6	55.5	23410
23500	0.0	87.3	1	1500.0	5000.0	48.8	50.2	23510
23510	0.0	87.3	1	1500.0	5000.0	43.3	45.5	23520
23520	0.0	87.3	1	1500.0	5000.0	41.2	44.2	23530
23530	0.0	87.3	1	1500.0	5000.0	40.5	44.2	23540
23540	0.0	87.5	1	1500.0	5000.0	41.2	41.4	23550
23550	0.0	87.7	1	1500.0	4387.6	35.0	50.1	23540







# APPENDIX C

## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

### HYDRAULIC MODELING RESULTS

#### RUN 4 (Figure 5.6)

#### Existing Water Distribution System with Improvements for Average Day Demand of Maximum Demand Month

<b>Total Demand</b>	<b>7,400 gpm</b>	<b>10.6 mgd</b>
<b>Number of Pumps Operating:</b>		
Water Treatment Plant Pump Station	2	
Remote Pump Station	0	
<b>Pump Operating Speed:</b>		
Water Treatment Plant Pump Station	91%	
Remote Pump Station	off	
<b>Pump Discharge Rate:</b>		
Pump 1 Water Treatment Plant PS	3,671 gpm	
Pump 2 Water Treatment Plant PS	3,686 gpm	
Pump 3 Water Treatment Plant PS	off	
Pump 1 Remote Pump Station	off	
<b>Pump Discharge Head:</b>		
Pump 1 Water Treatment Plant PS	117.5 ft	50.9 psi
Pump 2 Water Treatment Plant PS	117.3 ft	50.8 psi
Pump 3 Water Treatment Plant PS	off	off
Pump 1 Remote Pump Station	off	off
<b>Hydraulic Grade Elevation:</b>		
at Water Treatment Plant PS (El. 67 ft)	196.4 ft	56.0 psi
at Remote Pump Station (El. 60 ft)	189.5 ft	56.1 psi
at 3rd & Commercial (El. 50 ft)	189.7 ft	60.5 psi









# MAXIMUM DIMENSIONS

RUN-4

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	60011

Cybernet version 2.16c. SN: 1162130099-2000

Extended Description:

## U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

## O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

## S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1280  
 NUMBER OF JUNCTION NODES .....(j) = 950  
 NUMBER OF PRIMARY LOOPS .....(l) = 329  
 NUMBER OF BOUNDARY NODES .....(f) = 2  
 NUMBER OF SUPPLY ZONES .....(z) = 1

## \*\*\*\*\* S I M U L A T I O N R E S U L T S \*\*\*\*\*

The results are obtained after 7 trials with an accuracy = 0.00199

## S I M U L A T I O N D E S C R I P T I O N

CyberNet Version 2.16c. Copyright 1991,92 Haestad Methods Inc.  
 Run Description: AVE. DAY OF MAX MONTH FLOW = 7360 GPM 10.5 MG  
 Drawing: EC-PEAK3







## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5	10	5	-4968.54	0.16	0.00	0.00	2.26	0.93
10	10	15	4698.68	0.88	0.00	0.00	2.13	0.83
15	2420	15	-4586.37	0.22	0.00	0.00	2.08	0.80
17	2420	20	4112.11	0.61	0.00	0.00	1.87	0.65
20	20	30	4112.11	0.73	0.00	0.00	1.87	0.65
30	30	40	2980.23	0.21	0.00	0.00	1.35	0.36
40	40	50	2980.23	0.11	0.00	0.00	1.35	0.36
50	50	60	2707.75	0.53	0.00	0.00	1.92	0.89
60	60	70	2435.54	0.39	0.00	0.00	1.73	0.73
80	70	80	2284.92	0.58	0.00	0.00	1.62	0.65
90	80	90	2070.77	0.23	0.00	0.00	1.47	0.54
100	90	100	1549.67	0.10	0.00	0.00	1.10	0.32
205	5	210	700.60	0.32	0.00	0.00	0.88	0.30
210	210	220	675.92	0.38	0.00	0.00	0.85	0.28
220	220	230	1123.87	0.94	0.00	0.00	1.42	0.71
240	230	240	1253.28	0.84	0.00	0.00	1.58	0.87
250	240	250	1253.28	0.92	0.00	0.00	1.58	0.87
260	250	260	1121.87	0.64	0.00	0.00	1.41	0.71
270	260	270	914.42	0.17	0.00	0.00	1.15	0.48
280	270	280	866.99	0.10	0.00	0.00	1.09	0.44
290	280	300	839.90	0.23	0.00	0.00	1.06	0.41
305	300	305	759.73	0.22	0.00	0.00	0.96	0.34
310	305	310	715.51	0.10	0.00	0.00	0.90	0.31
315	310	315	678.39	0.09	0.00	0.00	0.86	0.28
320	315	320	-390.29	0.04	0.00	0.00	0.49	0.10
325	320	325	-361.26	0.08	0.00	0.00	0.46	0.09
330	325	330	-442.03	0.08	0.00	0.00	0.56	0.13
335	330	335	-511.56	0.03	0.00	0.00	0.64	0.17
340	335	90	-516.33	0.09	0.00	0.00	0.65	0.17
400	315	400	983.92	0.19	0.00	0.00	1.24	0.56
405	400	405	414.60	0.17	0.00	0.00	1.18	0.81
410	405	410	354.09	0.17	0.00	0.00	1.00	0.60
415	410	415	309.99	0.10	0.00	0.00	0.88	0.47
420	415	420	329.88	0.19	0.00	0.00	0.94	0.53
425	420	425	327.95	0.17	0.00	0.00	0.93	0.52
430	425	430	312.37	0.10	0.00	0.00	0.89	0.48
435	430	435	287.47	0.08	0.00	0.00	0.82	0.41
440	435	440	265.77	0.13	0.00	0.00	0.75	0.35
445	440	445	218.80	0.05	0.00	0.00	0.62	0.25
450	445	450	218.28	0.04	0.00	0.00	0.62	0.25
455	450	455	258.34	0.13	0.00	0.00	0.73	0.34
457	455	457	-37.82	0.00	0.00	0.00	0.11	0.01
459	457	459	-45.76	0.01	0.00	0.00	0.13	0.01





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
460	460	459	59.88	0.01	0.00	0.00	0.17	0.02
465	460	465	-4.80	0.00	0.00	0.00	0.01	0.00
470	465	470	-251.95	0.06	0.00	0.00	0.71	0.32
475	470	475	-212.36	0.05	0.00	0.00	0.60	0.23
480	475	480	-234.34	0.05	0.00	0.00	0.66	0.28
485	480	485	-175.04	0.03	0.00	0.00	0.50	0.16
490	485	490	-334.42	0.20	0.00	0.00	0.95	0.54
495	490	495	-372.69	0.25	0.00	0.00	1.06	0.66
500	495	500	-393.55	0.25	0.00	0.00	1.12	0.73
505	500	505	-345.76	0.20	0.00	0.00	0.98	0.58
510	505	510	-389.86	0.26	0.00	0.00	1.11	0.72
515	510	100	-463.83	0.34	0.00	0.00	1.32	0.99
600	455	600	281.74	0.12	0.00	0.00	0.80	0.39
605	600	605	297.45	0.08	0.00	0.00	0.84	0.44
610	605	610	283.77	0.20	0.00	0.00	0.80	0.40
615	610	615	263.66	0.12	0.00	0.00	0.75	0.35
620	615	620	239.53	0.10	0.00	0.00	0.68	0.29
625	620	625	124.06	0.03	0.00	0.00	0.35	0.09
630	625	630	102.43	0.02	0.00	0.00	0.29	0.06
635	630	635	101.68	0.02	0.00	0.00	0.29	0.06
640	635	640	57.61	0.01	0.00	0.00	0.16	0.02
645	640	645	110.66	0.02	0.00	0.00	0.31	0.07
650	645	650	65.78	0.01	0.00	0.00	0.19	0.03
655	650	655	65.78	0.02	0.00	0.00	0.19	0.03
660	655	660	30.23	0.02	0.00	0.00	0.19	0.05
700	465	700	251.12	0.13	0.00	0.00	0.71	0.32
705	700	705	311.90	0.17	0.00	0.00	0.88	0.48
710	705	710	348.30	0.25	0.00	0.00	0.99	0.58
715	710	715	258.11	0.05	0.00	0.00	0.73	0.34
720	715	720	223.47	0.09	0.00	0.00	0.63	0.26
725	720	725	98.79	0.05	0.00	0.00	0.40	0.14
730	725	730	96.16	0.06	0.00	0.00	0.39	0.13
735	730	735	74.56	0.03	0.00	0.00	0.30	0.08
740	735	740	63.05	0.02	0.00	0.00	0.26	0.06
745	740	745	54.77	0.02	0.00	0.00	0.22	0.05
750	745	750	56.47	0.01	0.00	0.00	0.23	0.05
800	400	800	539.83	0.13	0.00	0.00	0.68	0.18
810	800	810	532.42	0.12	0.00	0.00	0.67	0.18
820	810	820	349.62	0.05	0.00	0.00	0.44	0.08
830	820	830	403.61	0.03	0.00	0.00	0.51	0.11
840	830	840	506.43	0.06	0.00	0.00	0.64	0.16
845	840	860	-167.68	0.01	0.00	0.00	0.48	0.15
850	840	850	669.52	0.13	0.00	0.00	0.84	0.27



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
860	850	5000	669.52	0.18	0.00	0.00	0.84	0.27
875	860	870	-305.61	0.28	0.00	0.00	0.87	0.46
880	870	880	-347.23	0.18	0.00	0.00	0.98	0.58
890	880	890	-383.81	0.21	0.00	0.00	1.09	0.70
895	890	3025	-428.76	0.28	0.00	0.00	1.22	0.86
900	420	900	-6.27	0.00	0.00	0.00	0.02	0.00
910	900	910	-14.48	0.00	0.00	0.00	0.04	0.00
920	910	920	106.14	0.04	0.00	0.00	0.30	0.06
930	920	5000	86.20	0.03	0.00	0.00	0.24	0.04
935	5000	935	31.03	0.00	0.00	0.00	0.09	0.01
940	935	940	76.21	0.01	0.00	0.00	0.22	0.04
950	940	950	73.27	0.02	0.00	0.00	0.21	0.03
960	950	960	129.02	0.03	0.00	0.00	0.37	0.09
970	960	970	28.17	0.00	0.00	0.00	0.08	0.01
980	970	980	2.88	0.00	0.00	0.00	0.01	0.00
1000	260	1000	-9.97	0.00	0.00	0.00	0.06	0.01
1010	1000	1010	-22.87	0.03	0.00	0.00	0.15	0.03
1015	1010	1015	-162.44	0.35	0.00	0.00	1.04	1.03
1020	1015	50	-164.72	0.75	0.00	0.00	1.05	1.05
1030	260	1030	-43.31	0.08	0.00	0.00	0.28	0.09
1040	1030	1040	64.97	0.03	0.00	0.00	0.41	0.19
1050	1040	1050	25.72	0.03	0.00	0.00	0.16	0.03
1060	1050	1060	-1.89	0.00	0.00	0.00	0.02	0.00
1070	1060	1070	-26.79	0.09	0.00	0.00	0.30	0.15
1080	1070	1080	-79.47	0.30	0.00	0.00	0.90	1.11
1090	1080	50	-103.70	0.73	0.00	0.00	1.18	1.81
1100	1015	1090	-5.65	0.00	0.00	0.00	0.06	0.01
1105	1090	1080	-13.59	0.02	0.00	0.00	0.15	0.04
1110	1000	1100	-3.32	0.00	0.00	0.00	0.04	0.00
1115	1100	1110	-8.41	0.01	0.00	0.00	0.10	0.02
1120	1010	1110	31.23	0.02	0.00	0.00	0.20	0.05
1125	1110	1050	15.49	0.00	0.00	0.00	0.10	0.01
1150	1040	1150	30.02	0.05	0.00	0.00	0.34	0.18
1155	1150	1155	4.49	0.00	0.00	0.00	0.05	0.01
1160	1155	1160	-2.66	0.00	0.00	0.00	0.03	0.00
1165	1050	1160	34.20	0.02	0.00	0.00	0.22	0.06
1170	1150	1170	15.97	0.02	0.00	0.00	0.18	0.06
1175	1170	1175	5.51	0.00	0.00	0.00	0.06	0.01
1180	1175	1180	-2.56	0.00	0.00	0.00	0.03	0.00
1185	1180	1185	-10.63	0.01	0.00	0.00	0.12	0.03
1190	1160	1185	22.29	0.01	0.00	0.00	0.14	0.03
1195	1185	1205	1.52	0.00	0.00	0.00	0.01	0.00
1200	1060	1200	13.81	0.01	0.00	0.00	0.16	0.04



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1205	1200	1205	14.24	0.02	0.00	0.00	0.16	0.05
1210	1070	1210	41.02	0.09	0.00	0.00	0.47	0.33
1215	1210	1200	9.72	0.01	0.00	0.00	0.11	0.02
1220	1210	1220	21.39	0.03	0.00	0.00	0.24	0.10
1225	1220	1225	7.32	0.00	0.00	0.00	0.05	0.00
1230	1205	1225	4.05	0.00	0.00	0.00	0.03	0.00
1240	1170	1240	5.37	0.00	0.00	0.00	0.06	0.01
1245	1175	1245	5.37	0.00	0.00	0.00	0.06	0.01
1250	1180	1250	5.37	0.00	0.00	0.00	0.06	0.01
1255	1185	1255	5.37	0.00	0.00	0.00	0.06	0.01
1260	1205	1260	4.59	0.00	0.00	0.00	0.05	0.01
1265	1225	1265	6.34	0.00	0.00	0.00	0.07	0.01
1270	1220	1270	6.34	0.00	0.00	0.00	0.07	0.01
1275	1030	1275	-110.89	0.23	0.00	0.00	0.71	0.51
1280	1275	250	-131.41	0.33	0.00	0.00	0.84	0.69
1300	270	1300	26.82	0.08	0.00	0.00	0.30	0.15
1305	1300	1305	-28.90	0.15	0.00	0.00	0.33	0.17
1310	1300	1310	43.53	0.02	0.00	0.00	0.28	0.09
1315	1310	1315	70.62	0.04	0.00	0.00	0.45	0.22
1320	1315	1320	11.12	0.01	0.00	0.00	0.07	0.01
1325	1320	1305	-45.64	0.21	0.00	0.00	0.52	0.40
1327	300	1325	-38.95	0.00	0.00	0.00	0.11	0.01
1330	1315	1330	49.55	0.18	0.00	0.00	0.56	0.46
1335	1320	1335	42.38	0.13	0.00	0.00	0.48	0.35
1340	1325	1330	-76.32	0.01	0.00	0.00	0.22	0.04
1345	1330	1335	-35.13	0.04	0.00	0.00	0.22	0.06
1350	1335	1350	-74.69	0.15	0.00	0.00	0.48	0.24
1355	1350	70	-145.64	0.51	0.00	0.00	0.93	0.84
1360	60	1360	267.24	3.35	0.00	0.00	3.03	10.47
1365	1360	1365	89.08	0.74	0.00	0.00	1.01	1.37
1370	1360	1370	89.08	0.37	0.00	0.00	1.01	1.37
1375	1010	1305	91.15	0.13	0.00	0.00	0.58	0.35
1380	280	1310	27.09	0.00	0.00	0.00	0.08	0.01
1400	320	1403	-42.39	0.11	0.00	0.00	0.48	0.35
1404	1400	1403	39.70	0.10	0.00	0.00	0.45	0.31
1405	1400	1405	-39.87	0.09	0.00	0.00	0.45	0.31
1410	1405	1325	-32.39	0.06	0.00	0.00	0.37	0.21
1420	1400	1420	-9.52	0.01	0.00	0.00	0.11	0.02
1425	1420	1425	-18.29	0.03	0.00	0.00	0.21	0.07
1430	1425	1430	-13.10	0.02	0.00	0.00	0.15	0.04
1435	1405	1435	-17.57	0.06	0.00	0.00	0.20	0.07
1440	1435	1440	-11.49	0.02	0.00	0.00	0.13	0.03
1445	1420	1445	3.53	0.00	0.00	0.00	0.04	0.00





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1450	1445	1450	-16.56	0.04	0.00	0.00	0.19	0.06
1455	1403	1455	-10.16	0.01	0.00	0.00	0.12	0.02
1460	1455	1460	-18.91	0.03	0.00	0.00	0.21	0.08
1465	1460	1465	-16.19	0.03	0.00	0.00	0.18	0.06
1470	1455	1470	3.50	0.01	0.00	0.00	0.09	0.02
1475	1470	1475	-20.45	0.05	0.00	0.00	0.23	0.09
1480	325	1470	-54.42	0.02	0.00	0.00	0.35	0.14
1485	1470	1460	-35.45	0.04	0.00	0.00	0.40	0.25
1490	1460	1445	-45.76	0.07	0.00	0.00	0.52	0.40
1495	1445	1425	-30.64	0.03	0.00	0.00	0.35	0.19
1500	1425	1435	-44.22	0.12	0.00	0.00	0.50	0.37
1505	1435	1335	-65.49	0.05	0.00	0.00	0.42	0.19
1510	330	1475	-5.66	0.00	0.00	0.00	0.06	0.01
1515	1475	1465	-26.11	0.02	0.00	0.00	0.30	0.14
1520	1465	1450	-45.97	0.07	0.00	0.00	0.52	0.40
1525	1450	1430	-23.98	0.02	0.00	0.00	0.27	0.12
1530	1430	1440	-42.58	0.11	0.00	0.00	0.48	0.35
1535	1350	1440	61.41	0.18	0.00	0.00	0.70	0.69
1540	1450	1540	-42.23	0.03	0.00	0.00	0.27	0.08
1545	1540	80	-60.96	0.21	0.00	0.00	0.69	0.68
1600	400	1600	21.26	0.03	0.00	0.00	0.24	0.10
1605	1600	1605	16.47	0.05	0.00	0.00	0.19	0.06
1610	415	1610	-69.19	0.19	0.00	0.00	0.44	0.21
1615	1610	1615	-45.01	0.07	0.00	0.00	0.51	0.39
1620	1615	1605	-37.56	0.10	0.00	0.00	0.43	0.28
1622	1610	1620	-29.19	0.02	0.00	0.00	0.19	0.04
1624	1620	1625	-90.41	0.07	0.00	0.00	0.58	0.35
1625	1615	1625	-12.16	0.01	0.00	0.00	0.14	0.03
1627	1625	1630	-104.83	0.16	0.00	0.00	0.67	0.46
1630	1605	1630	-30.60	0.08	0.00	0.00	0.35	0.19
1635	1630	1635	-127.37	0.22	0.00	0.00	0.81	0.65
1637	1635	325	-116.72	0.09	0.00	0.00	0.74	0.56
1640	1620	1640	-11.62	0.00	0.00	0.00	0.07	0.01
1645	1625	1645	-9.79	0.01	0.00	0.00	0.11	0.02
1650	1630	1650	-20.11	0.05	0.00	0.00	0.23	0.09
1655	1635	1655	-19.11	0.05	0.00	0.00	0.22	0.08
1660	1640	505	-5.66	0.01	0.00	0.00	0.06	0.01
1665	1647	510	-20.83	0.06	0.00	0.00	0.24	0.09
1670	1653	100	-36.46	0.18	0.00	0.00	0.41	0.26
1675	1640	1645	-45.57	0.07	0.00	0.00	0.52	0.40
1680	1645	1647	-62.70	0.13	0.00	0.00	0.71	0.71
1685	1647	1650	-45.64	0.06	0.00	0.00	0.52	0.40
1690	1650	1653	-73.08	0.17	0.00	0.00	0.83	0.95



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1695	1653	1655	-40.31	0.05	0.00	0.00	0.46	0.32
1697	1655	330	-63.09	0.12	0.00	0.00	0.72	0.72
1700	425	1700	-21.96	0.14	0.00	0.00	0.25	0.10
1702	1620	1702	72.83	0.33	0.00	0.00	0.83	0.94
1705	1700	495	1.90	0.00	0.00	0.00	0.01	0.00
1710	1700	1702	-40.32	0.11	0.00	0.00	0.46	0.32
1715	1640	1705	35.69	0.09	0.00	0.00	0.40	0.25
1720	1705	500	27.80	0.11	0.00	0.00	0.32	0.16
1750	435	1750	14.34	0.03	0.00	0.00	0.16	0.05
1755	1750	1755	-5.04	0.01	0.00	0.00	0.06	0.01
1760	1755	490	-24.64	0.09	0.00	0.00	0.28	0.13
1770	440	1770	39.90	0.05	0.00	0.00	0.25	0.08
1775	1770	1775	29.62	0.03	0.00	0.00	0.19	0.04
1780	1775	1780	-48.08	0.01	0.00	0.00	0.14	0.01
1785	1780	485	-170.40	0.06	0.00	0.00	0.48	0.16
1790	445	1790	-1.58	0.00	0.00	0.00	0.02	0.00
1795	1790	1770	-3.68	0.00	0.00	0.00	0.04	0.00
1800	460	1800	-149.58	0.05	0.00	0.00	0.42	0.12
1805	1800	1805	-108.57	0.06	0.00	0.00	0.31	0.07
1810	1805	475	-20.43	0.00	0.00	0.00	0.06	0.00
1815	1805	1780	-112.82	0.03	0.00	0.00	0.32	0.07
1820	1800	1775	-66.16	0.07	0.00	0.00	0.42	0.19
1880	605	1880	0.71	0.00	0.00	0.00	0.01	0.00
1900	610	1900	14.79	0.03	0.00	0.00	0.17	0.05
1902	1900	1945	-0.41	0.00	0.00	0.00	0.00	0.00
1905	615	1905	15.93	0.04	0.00	0.00	0.18	0.06
1907	1905	1950	8.78	0.01	0.00	0.00	0.10	0.02
1910	620	1910	13.86	0.03	0.00	0.00	0.16	0.04
1912	1910	1955	5.60	0.01	0.00	0.00	0.06	0.01
1915	625	1915	15.49	0.04	0.00	0.00	0.18	0.05
1917	1915	1960	9.21	0.01	0.00	0.00	0.10	0.02
1920	635	1920	42.23	0.05	0.00	0.00	0.27	0.08
1925	1920	1925	12.79	0.00	0.00	0.00	0.08	0.01
1927	1925	1965	6.63	0.00	0.00	0.00	0.04	0.00
1930	1920	1930	17.84	0.01	0.00	0.00	0.11	0.02
1932	1930	1970	12.39	0.00	0.00	0.00	0.08	0.01
1935	460	1935	94.53	0.14	0.00	0.00	0.60	0.38
1937	1935	1975	-37.38	0.01	0.00	0.00	0.11	0.01
1940	1935	1940	119.52	0.21	0.00	0.00	0.76	0.58
1942	1940	1980	-3.15	0.00	0.00	0.00	0.04	0.00
1945	1940	1945	102.63	0.10	0.00	0.00	0.66	0.44
1950	1945	1950	96.20	0.13	0.00	0.00	0.61	0.39
1952	1950	1990	17.38	0.01	0.00	0.00	0.11	0.02



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1955	1950	1955	74.63	0.08	0.00	0.00	0.48	0.24
1957	1955	1995	8.55	0.01	0.00	0.00	0.10	0.02
1960	1955	1960	55.57	0.05	0.00	0.00	0.35	0.14
1962	1960	2000	6.07	0.00	0.00	0.00	0.04	0.00
1965	1960	1965	45.21	0.05	0.00	0.00	0.29	0.10
1967	1965	2005	15.18	0.03	0.00	0.00	0.17	0.05
1970	1965	1970	17.19	0.01	0.00	0.00	0.11	0.02
1972	1970	655	-4.86	0.00	0.00	0.00	0.03	0.00
1973	1970	2010	18.49	0.04	0.00	0.00	0.21	0.07
1975	1975	700	-46.39	0.01	0.00	0.00	0.13	0.01
1980	1980	705	-17.88	0.05	0.00	0.00	0.20	0.07
1982	1982	1985	-2.31	0.00	0.00	0.00	0.03	0.00
1985	1985	710	-42.14	0.01	0.00	0.00	0.12	0.01
1987	1985	1990	34.33	0.04	0.00	0.00	0.39	0.23
1990	1990	715	5.53	0.01	0.00	0.00	0.06	0.01
1992	1990	1995	35.47	0.08	0.00	0.00	0.40	0.25
1995	1995	720	7.54	0.01	0.00	0.00	0.09	0.01
1997	1995	2000	23.25	0.04	0.00	0.00	0.26	0.11
2000	2000	725	22.45	0.02	0.00	0.00	0.14	0.03
2005	2005	730	5.67	0.01	0.00	0.00	0.06	0.01
2010	2010	735	8.97	0.01	0.00	0.00	0.10	0.02
2012	655	2015	20.18	0.06	0.00	0.00	0.23	0.09
2015	2015	740	10.67	0.02	0.00	0.00	0.12	0.03
2017	660	2020	20.72	0.05	0.00	0.00	0.24	0.09
2020	2020	745	11.21	0.02	0.00	0.00	0.13	0.03
2200	230	2200	1134.98	0.57	0.00	0.00	1.43	0.72
2210	2200	2210	1134.98	0.65	0.00	0.00	1.43	0.72
2220	2210	2220	1134.98	0.33	0.00	0.00	1.43	0.72
2230	2220	2230	1101.71	0.38	0.00	0.00	1.39	0.68
2300	2220	2300	33.27	0.02	0.00	0.00	0.21	0.05
2310	2300	2310	3.54	0.00	0.00	0.00	0.02	0.00
2320	2300	2320	1.57	0.00	0.00	0.00	0.01	0.00
2330	2300	2330	23.06	0.01	0.00	0.00	0.15	0.03
2340	2330	2340	3.54	0.00	0.00	0.00	0.02	0.00
2350	2330	2350	1.57	0.00	0.00	0.00	0.01	0.00
2360	2330	2360	12.84	0.00	0.00	0.00	0.08	0.01
2370	2360	2370	3.54	0.00	0.00	0.00	0.02	0.00
2380	2360	2380	1.57	0.00	0.00	0.00	0.01	0.00
2400	9470	2400	-547.27	0.16	0.00	0.00	0.69	0.19
2410	2400	2410	-547.27	0.13	0.00	0.00	0.69	0.19
2420	2410	2420	-547.27	0.12	0.00	0.00	0.69	0.19
2430	2420	2430	-73.01	0.00	0.00	0.00	0.09	0.00
2440	2430	2440	-80.87	0.08	0.00	0.00	0.52	0.28





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
2445	2440	15	-112.31	0.14	0.00	0.00	0.72	0.52
2450	2440	2450	23.58	0.01	0.00	0.00	0.15	0.03
2460	2450	2460	7.86	0.00	0.00	0.00	0.05	0.00
2470	2450	2470	7.86	0.00	0.00	0.00	0.05	0.00
3000	300	3000	127.04	0.04	0.00	0.00	0.36	0.09
3005	3000	3005	62.29	0.01	0.00	0.00	0.18	0.02
3010	3005	3010	60.24	0.01	0.00	0.00	0.17	0.02
3015	3010	3015	1.06	0.00	0.00	0.00	0.00	0.00
3017	3540	3010	-60.47	0.22	0.00	0.00	0.69	0.67
3020	3015	3020	-5.15	0.00	0.00	0.00	0.01	0.00
3025	3020	3025	-102.17	0.03	0.00	0.00	0.29	0.06
3030	3025	3030	-670.02	0.42	0.00	0.00	1.90	1.96
3035	3030	3035	-679.48	0.20	0.00	0.00	0.86	0.28
3040	3035	3040	-679.48	0.16	0.00	0.00	0.86	0.28
3045	3040	3045	238.23	0.12	0.00	0.00	0.68	0.29
3050	3045	3050	145.46	0.05	0.00	0.00	0.41	0.12
3055	3050	3055	145.46	0.04	0.00	0.00	0.41	0.12
3060	3055	3060	93.08	0.02	0.00	0.00	0.26	0.05
3065	3025	3065	136.62	0.05	0.00	0.00	0.39	0.10
3070	3065	3070	132.69	0.04	0.00	0.00	0.38	0.10
3075	3070	3075	120.69	0.06	0.00	0.00	0.34	0.08
3080	3075	3080	115.45	0.02	0.00	0.00	0.33	0.08
3100	300	3100	-23.77	0.05	0.00	0.00	0.27	0.12
3105	3100	3105	0.42	0.00	0.00	0.00	0.00	0.00
3110	3100	3110	-24.19	0.06	0.00	0.00	0.27	0.12
3115	3110	3115	-26.29	0.06	0.00	0.00	0.30	0.14
3120	270	3115	105.85	0.16	0.00	0.00	0.68	0.46
3122	270	260	-93.10	0.17	0.00	0.00	0.59	0.37
3125	260	3130	113.55	0.30	0.00	0.00	0.72	0.53
3130	3115	3270	76.42	0.10	0.00	0.00	0.49	0.25
3140	3130	3140	42.42	0.05	0.00	0.00	0.27	0.09
3145	3140	3145	34.82	0.02	0.00	0.00	0.22	0.06
3147	3145	3147	7.86	0.00	0.00	0.00	0.05	0.00
3150	3130	3150	57.38	0.05	0.00	0.00	0.37	0.15
3152	3245	3150	-23.05	0.04	0.00	0.00	0.26	0.11
3155	3150	3145	20.57	0.01	0.00	0.00	0.13	0.02
3200	3200	3205	5.96	0.00	0.00	0.00	0.07	0.01
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	7.55	0.00	0.00	0.00	0.09	0.01
3210	3205	3215	-0.42	0.00	0.00	0.00	0.00	0.00
3215	3215	3220	3.12	0.00	0.00	0.00	0.04	0.00
3217	3235	3215	14.94	0.00	0.00	0.00	0.10	0.01
3220	3145	3225	39.93	0.03	0.00	0.00	0.25	0.08





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3225	3225	3230	18.62	0.01	0.00	0.00	0.12	0.02
3227	3225	3200	11.41	0.01	0.00	0.00	0.13	0.03
3230	3230	3235	1.27	0.00	0.00	0.00	0.01	0.00
3233	3252	3230	5.35	0.00	0.00	0.00	0.06	0.01
3235	3235	3240	3.12	0.00	0.00	0.00	0.04	0.00
3237	3257	3235	28.18	0.01	0.00	0.00	0.18	0.04
3245	3250	3245	-6.61	0.01	0.00	0.00	0.08	0.01
3247	3245	3247	8.08	0.00	0.00	0.00	0.09	0.02
3249	3247	3252	2.89	0.00	0.00	0.00	0.03	0.00
3250	3250	3255	-36.79	0.06	0.00	0.00	0.23	0.07
3251	3280	3250	-27.07	0.05	0.00	0.00	0.31	0.15
3252	3252	3257	-14.53	0.01	0.00	0.00	0.09	0.01
3254	3250	3252	1.40	0.00	0.00	0.00	0.02	0.00
3255	3255	3040	-184.00	0.58	0.00	0.00	1.17	1.29
3257	3255	3257	57.23	0.05	0.00	0.00	0.37	0.15
3259	3257	3259	3.12	0.00	0.00	0.00	0.02	0.00
3260	3005	3260	-3.92	0.00	0.00	0.00	0.04	0.00
3262	3260	3262	2.31	0.00	0.00	0.00	0.03	0.00
3264	3260	3295	5.56	0.00	0.00	0.00	0.06	0.01
3265	3260	3265	-20.38	0.03	0.00	0.00	0.23	0.09
3267	3265	3267	2.31	0.00	0.00	0.00	0.03	0.00
3269	3265	3290	8.29	0.01	0.00	0.00	0.09	0.02
3270	3265	3270	-39.56	0.09	0.00	0.00	0.45	0.30
3273	3275	3280	0.80	0.00	0.00	0.00	0.01	0.00
3274	3270	3285	16.78	0.04	0.00	0.00	0.19	0.06
3275	3270	3275	11.70	0.01	0.00	0.00	0.13	0.03
3277	3275	3277	2.31	0.00	0.00	0.00	0.03	0.00
3280	3280	3285	21.58	0.03	0.00	0.00	0.24	0.10
3285	3285	3290	32.07	0.06	0.00	0.00	0.36	0.21
3290	3290	3295	18.24	0.02	0.00	0.00	0.21	0.07
3295	3295	3010	11.38	0.01	0.00	0.00	0.13	0.03
3297	3295	3300	-4.61	0.01	0.00	0.00	0.05	0.01
3300	3020	3300	-31.01	0.02	0.00	0.00	0.20	0.05
3305	3300	3305	-46.37	0.03	0.00	0.00	0.30	0.10
3310	3305	3310	3.41	0.00	0.00	0.00	0.02	0.00
3315	3305	3315	-56.77	0.05	0.00	0.00	0.36	0.15
3320	3315	3320	3.41	0.00	0.00	0.00	0.02	0.00
3325	3315	3325	-67.17	0.06	0.00	0.00	0.43	0.20
3330	3325	3330	3.41	0.00	0.00	0.00	0.02	0.00
3335	3255	3325	77.57	0.09	0.00	0.00	0.50	0.26
3400	3020	3400	119.21	0.18	0.00	0.00	0.76	0.58
3405	3400	3405	2.62	0.00	0.00	0.00	0.03	0.00
3410	3400	3410	112.00	0.16	0.00	0.00	0.71	0.52



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3415	3410	3415	2.62	0.00	0.00	0.00	0.03	0.00
3420	3410	3420	125.08	0.20	0.00	0.00	0.80	0.63
3425	3420	3425	2.62	0.00	0.00	0.00	0.03	0.00
3430	3420	3430	117.88	0.17	0.00	0.00	0.75	0.57
3435	3430	3435	2.62	0.00	0.00	0.00	0.03	0.00
3437	3430	830	110.67	0.15	0.00	0.00	0.71	0.50
3440	820	3440	-61.85	0.05	0.00	0.00	0.39	0.17
3445	810	3450	-49.29	0.14	0.00	0.00	0.56	0.46
3450	3440	3450	-69.71	0.14	0.00	0.00	0.44	0.21
3460	3460	3450	66.86	0.14	0.00	0.00	0.43	0.20
3467	3460	315	-74.28	0.15	0.00	0.00	0.47	0.24
3470	310	3470	27.48	0.10	0.00	0.00	0.31	0.15
3475	3450	3480	-65.79	0.23	0.00	0.00	0.75	0.78
3480	3470	3480	20.07	0.06	0.00	0.00	0.23	0.09
3490	3480	3490	-15.65	0.04	0.00	0.00	0.18	0.05
3500	3490	3500	-23.19	0.03	0.00	0.00	0.26	0.11
3505	3500	3410	22.25	0.01	0.00	0.00	0.14	0.03
3510	3500	3510	-35.86	0.04	0.00	0.00	0.23	0.06
3515	3480	3510	-43.72	0.11	0.00	0.00	0.50	0.37
3520	3510	3520	-52.92	0.11	0.00	0.00	0.34	0.13
3525	3520	305	-34.95	0.03	0.00	0.00	0.22	0.06
3530	3520	3530	-29.45	0.01	0.00	0.00	0.19	0.04
3535	3530	3000	-56.02	0.19	0.00	0.00	0.64	0.58
3540	3530	3540	15.83	0.05	0.00	0.00	0.18	0.06
3545	3510	3540	-35.26	0.08	0.00	0.00	0.40	0.25
3550	3540	3550	26.29	0.10	0.00	0.00	0.30	0.14
3555	3550	3500	18.43	0.02	0.00	0.00	0.21	0.07
3600	405	3600	52.31	0.08	0.00	0.00	0.33	0.13
3603	810	3605	218.43	0.07	0.00	0.00	0.62	0.25
3605	3600	3605	44.11	0.06	0.00	0.00	0.28	0.09
3610	410	3610	35.90	0.04	0.00	0.00	0.23	0.06
3613	3605	3615	252.07	0.09	0.00	0.00	0.72	0.32
3615	3610	3615	27.70	0.03	0.00	0.00	0.18	0.04
3620	415	3620	36.10	0.05	0.00	0.00	0.23	0.06
3623	3615	3625	271.56	0.10	0.00	0.00	0.77	0.37
3625	3620	3625	27.90	0.03	0.00	0.00	0.18	0.04
3627	3625	910	291.26	0.12	0.00	0.00	0.83	0.42
3630	425	3630	21.54	0.07	0.00	0.00	0.24	0.10
3633	910	3635	143.71	0.27	0.00	0.00	0.92	0.82
3635	3630	3635	13.33	0.03	0.00	0.00	0.15	0.04
3640	430	3640	24.89	0.02	0.00	0.00	0.16	0.03
3642	3635	3645	72.31	0.04	0.00	0.00	0.46	0.23
3643	3640	3643	24.89	0.02	0.00	0.00	0.16	0.03



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3645	3643	3645	24.89	0.01	0.00	0.00	0.16	0.03
3650	440	3650	2.38	0.00	0.00	0.00	0.03	0.00
3655	3650	440	-1.00	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	94.22	0.13	0.00	0.00	0.60	0.37
3667	3697	3665	-17.01	0.01	0.00	0.00	0.11	0.02
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	58.40	0.04	0.00	0.00	0.37	0.15
3677	3675	4510	58.40	0.05	0.00	0.00	0.37	0.15
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00
3685	3635	3685	64.72	0.12	0.00	0.00	0.41	0.19
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	58.93	0.06	0.00	0.00	0.38	0.16
3697	3695	3697	-2.31	0.00	0.00	0.00	0.01	0.00
3698	3695	3698	46.38	0.04	0.00	0.00	0.30	0.10
3699	3698	4520	46.38	0.04	0.00	0.00	0.30	0.10
4000	3045	4000	88.31	0.16	0.00	0.00	0.56	0.33
4010	4000	4010	87.11	0.19	0.00	0.00	0.56	0.32
4020	4010	4020	77.08	0.13	0.00	0.00	0.49	0.26
4025	4020	3070	134.11	0.26	0.00	0.00	0.86	0.72
4030	4020	4030	-67.07	0.10	0.00	0.00	0.43	0.20
4040	4030	4040	-79.12	0.12	0.00	0.00	0.50	0.27
4045	4040	3060	-86.03	0.15	0.00	0.00	0.55	0.32
4050	4000	4050	-10.48	0.00	0.00	0.00	0.07	0.01
4060	4050	4060	-15.49	0.00	0.00	0.00	0.10	0.01
4070	4060	4070	-23.27	0.01	0.00	0.00	0.15	0.03
4080	4070	4080	-37.71	0.02	0.00	0.00	0.24	0.07
4090	4080	3055	-42.95	0.03	0.00	0.00	0.27	0.09
4100	4100	4105	-28.43	0.01	0.00	0.00	0.18	0.04
4103	3070	4105	135.62	0.24	0.00	0.00	0.87	0.73
4105	4105	4110	-30.96	0.02	0.00	0.00	0.20	0.05
4110	4110	890	-37.95	0.03	0.00	0.00	0.24	0.07
4115	4115	4120	-15.46	0.00	0.00	0.00	0.10	0.01
4120	4120	4125	-22.59	0.01	0.00	0.00	0.14	0.03
4123	4105	4120	125.92	0.19	0.00	0.00	0.80	0.64
4125	4125	880	-29.58	0.02	0.00	0.00	0.19	0.04
4130	4130	4135	-25.22	0.01	0.00	0.00	0.16	0.03
4133	4120	4135	120.81	0.18	0.00	0.00	0.77	0.59
4135	4135	4140	-19.09	0.01	0.00	0.00	0.12	0.02
4137	4135	4225	104.99	0.26	0.00	0.00	0.67	0.46
4140	4140	4145	-29.05	0.01	0.00	0.00	0.19	0.04
4145	4145	870	-39.00	0.01	0.00	0.00	0.25	0.07
4150	4140	4150	3.67	0.00	0.00	0.00	0.02	0.00





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4155	4145	4155	3.67	0.00	0.00	0.00	0.02	0.00
4200	860	4200	109.16	0.13	0.00	0.00	0.70	0.49
4205	4200	4205	88.58	0.10	0.00	0.00	0.57	0.33
4210	4205	4210	72.03	0.07	0.00	0.00	0.46	0.23
4215	4210	935	48.11	0.03	0.00	0.00	0.31	0.11
4220	860	4220	21.31	0.01	0.00	0.00	0.14	0.02
4225	4220	4225	13.84	0.00	0.00	0.00	0.09	0.01
4227	4225	4235	97.74	0.12	0.00	0.00	0.62	0.40
4230	4200	4230	14.74	0.01	0.00	0.00	0.09	0.01
4235	4230	4235	8.89	0.00	0.00	0.00	0.06	0.00
4237	4235	4245	87.31	0.10	0.00	0.00	0.56	0.32
4240	4205	4240	10.70	0.00	0.00	0.00	0.07	0.01
4245	4240	4245	4.86	0.00	0.00	0.00	0.03	0.00
4247	4245	4255	75.15	0.07	0.00	0.00	0.48	0.25
4250	4210	4250	18.08	0.01	0.00	0.00	0.12	0.02
4255	4250	4255	12.23	0.00	0.00	0.00	0.08	0.01
4257	4255	950	61.98	0.05	0.00	0.00	0.40	0.17
4260	4225	4260	1.71	0.00	0.00	0.00	0.01	0.00
4265	4260	4265	-5.76	0.00	0.00	0.00	0.04	0.00
4266	4265	4266	-117.75	0.10	0.00	0.00	0.75	0.57
4267	4265	4275	98.76	0.12	0.00	0.00	0.63	0.41
4268	4265	4267	2.88	0.00	0.00	0.00	0.02	0.00
4270	4235	4270	6.83	0.00	0.00	0.00	0.04	0.00
4275	4270	4275	0.20	0.00	0.00	0.00	0.00	0.00
4277	4275	4285	86.57	0.10	0.00	0.00	0.55	0.32
4278	4275	4278	2.88	0.00	0.00	0.00	0.02	0.00
4280	4245	4280	4.56	0.00	0.00	0.00	0.03	0.00
4285	4280	4285	-2.07	0.00	0.00	0.00	0.01	0.00
4287	4285	4295	77.87	0.08	0.00	0.00	0.50	0.26
4290	4255	4290	12.95	0.00	0.00	0.00	0.08	0.01
4295	4290	4295	6.35	0.00	0.00	0.00	0.04	0.00
4297	4295	970	77.62	0.07	0.00	0.00	0.50	0.26
4300	960	4300	94.08	0.11	0.00	0.00	0.60	0.37
4305	4300	4340	2.71	0.00	0.00	0.00	0.02	0.00
4310	4300	4310	84.43	0.09	0.00	0.00	0.54	0.31
4315	4310	4350	3.67	0.00	0.00	0.00	0.02	0.00
4320	4310	4320	73.82	0.07	0.00	0.00	0.47	0.24
4325	4320	4360	-0.02	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	66.90	0.06	0.00	0.00	0.43	0.20
4335	4330	4370	-0.52	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	60.48	0.05	0.00	0.00	0.39	0.16
4340	970	4340	93.30	0.11	0.00	0.00	0.60	0.37
4345	4340	4380	2.88	0.00	0.00	0.00	0.02	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4350	4340	4350	83.30	0.09	0.00	0.00	0.53	0.30
4355	4350	4390	2.88	0.00	0.00	0.00	0.02	0.00
4360	4350	4360	74.26	0.07	0.00	0.00	0.47	0.24
4370	4360	4370	67.29	0.06	0.00	0.00	0.43	0.20
4375	4370	4590	59.82	0.05	0.00	0.00	0.38	0.16
4400	4550	4400	-24.22	0.01	0.00	0.00	0.15	0.03
4410	4400	4410	-29.06	0.02	0.00	0.00	0.19	0.04
4420	4410	4420	-38.89	0.03	0.00	0.00	0.25	0.07
4430	4420	4430	3.93	0.00	0.00	0.00	0.03	0.00
4440	4420	5020	-47.80	0.07	0.00	0.00	0.31	0.11
4500	450	4500	-54.59	0.01	0.00	0.00	0.15	0.02
4510	4500	4510	-71.18	0.02	0.00	0.00	0.20	0.03
4520	4510	4520	-41.29	0.01	0.00	0.00	0.12	0.01
4530	4520	4530	-46.83	0.01	0.00	0.00	0.13	0.01
4540	4530	5030	-54.30	0.01	0.00	0.00	0.15	0.02
4545	5030	4540	-19.68	0.00	0.00	0.00	0.02	0.00
4550	4540	4550	-65.28	0.00	0.00	0.00	0.08	0.00
4560	4550	4560	-80.98	0.00	0.00	0.00	0.10	0.01
4570	4560	4570	-113.39	0.00	0.00	0.00	0.14	0.01
4580	4570	4580	-55.21	0.00	0.00	0.00	0.07	0.00
4590	4580	4590	-57.52	0.00	0.00	0.00	0.07	0.00
4600	600	4600	-23.06	0.02	0.00	0.00	0.15	0.03
4610	4600	4610	-33.81	0.04	0.00	0.00	0.22	0.06
4620	4610	4620	-33.81	0.04	0.00	0.00	0.22	0.06
4630	4620	5040	-33.81	0.04	0.00	0.00	0.22	0.06
4700	610	4700	-21.30	0.00	0.00	0.00	0.06	0.00
4710	4700	4710	-23.50	0.00	0.00	0.00	0.07	0.00
4720	4710	4720	-108.09	0.05	0.00	0.00	0.31	0.07
4730	4720	4730	-127.01	0.01	0.00	0.00	0.36	0.09
4740	4730	4740	-150.65	0.06	0.00	0.00	0.43	0.12
4750	4740	4750	-170.32	0.03	0.00	0.00	0.48	0.16
4760	4750	5050	-175.56	0.08	0.00	0.00	0.50	0.16
4800	620	4800	92.78	0.00	0.00	0.00	0.26	0.05
4810	4800	4810	-60.88	0.10	0.00	0.00	0.39	0.17
4820	4810	4820	-62.82	0.08	0.00	0.00	0.40	0.18
4830	4820	4830	-62.82	0.08	0.00	0.00	0.40	0.18
4840	4830	4840	-39.18	0.04	0.00	0.00	0.25	0.07
4850	4810	4850	-7.88	0.00	0.00	0.00	0.02	0.00
4860	4840	5060	-39.18	0.05	0.00	0.00	0.02	0.00
4870	4710	4850	63.37	0.12	0.00	0.00	0.25	0.07
4880	4850	4870	55.28	0.28	0.00	0.00	0.72	0.73
4885	4830	4880	-23.64	0.01	0.00	0.00	0.63	0.57
4890	4880	4730	-23.64	0.01	0.00	0.00	0.15	0.03
							0.15	0.03



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4900	4800	4900	106.74	0.04	0.00	0.00	0.30	0.07
4905	4900	630	1.08	0.00	0.00	0.00	0.00	0.00
4910	4900	4910	61.74	0.01	0.00	0.00	0.18	0.02
4920	4910	4920	55.93	0.00	0.00	0.00	0.16	0.02
4930	4920	4930	83.89	0.02	0.00	0.00	0.24	0.04
4935	4930	640	55.66	0.00	0.00	0.00	0.16	0.02
4940	4930	4940	27.39	0.00	0.00	0.00	0.08	0.01
4945	4940	4947	-23.56	0.00	0.00	0.00	0.07	0.00
4950	4920	4950	-27.96	0.00	0.00	0.00	0.08	0.01
4955	4947	4955	-28.26	0.03	0.00	0.00	0.18	0.04
4957	4955	4995	-40.57	0.02	0.00	0.00	0.26	0.08
4960	4950	4960	-42.13	0.00	0.00	0.00	0.12	0.01
4965	4960	4965	-38.07	0.00	0.00	0.00	0.11	0.01
4970	4965	4970	-48.55	0.00	0.00	0.00	0.14	0.02
4975	4970	4975	-43.90	0.01	0.00	0.00	0.12	0.01
4977	4975	4977	-51.15	0.01	0.00	0.00	0.15	0.02
4980	4977	4980	-56.91	0.01	0.00	0.00	0.16	0.02
4985	4980	4985	-100.42	0.02	0.00	0.00	0.28	0.06
4990	4985	4990	-134.71	0.03	0.00	0.00	0.38	0.10
4993	5080	4990	203.15	0.07	0.00	0.00	0.58	0.22
4995	4980	4995	37.74	0.00	0.00	0.00	0.11	0.01
5000	5000	5010	712.02	0.16	0.00	0.00	0.90	0.31
5010	5010	5020	712.02	0.15	0.00	0.00	0.90	0.31
5020	5020	5030	664.22	0.13	0.00	0.00	0.84	0.27
5030	5030	5040	622.92	0.17	0.00	0.00	0.79	0.24
5040	5040	5050	665.41	0.18	0.00	0.00	0.84	0.27
5050	5050	5060	489.85	0.10	0.00	0.00	0.62	0.15
5060	5060	5070	450.67	0.15	0.00	0.00	0.57	0.13
5070	5070	5080	450.67	0.11	0.00	0.00	0.57	0.13
5080	5080	5090	247.52	0.03	0.00	0.00	0.31	0.04
5090	5090	6000	247.52	0.03	0.00	0.00	0.31	0.04
5100	4900	5100	5.37	0.00	0.00	0.00	0.03	0.00
5105	5100	4960	5.37	0.00	0.00	0.00	0.03	0.00
5110	4970	5110	-4.65	0.00	0.00	0.00	0.03	0.00
5120	5110	5120	-11.05	0.00	0.00	0.00	0.07	0.01
5125	5120	4975	-10.82	0.00	0.00	0.00	0.07	0.01
5130	5120	5130	-9.13	0.00	0.00	0.00	0.06	0.00
5140	5130	5140	-18.04	0.01	0.00	0.00	0.12	0.02
5145	5140	5150	-36.37	0.03	0.00	0.00	0.23	0.06
5150	5150	4990	-42.13	0.03	0.00	0.00	0.27	0.08
5160	5140	5160	4.18	0.00	0.00	0.00	0.03	0.00
5163	5160	4975	19.03	0.01	0.00	0.00	0.12	0.02
5165	5160	5170	-22.76	0.01	0.00	0.00	0.15	0.03





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5170	5170	4985	-28.53	0.02	0.00	0.00	0.18	0.04
5180	4965	5180	6.55	0.00	0.00	0.00	0.03	0.00
5190	4950	5190	12.86	0.02	0.00	0.00	0.15	0.04
5195	5190	4947	7.62	0.00	0.00	0.00	0.03	0.00
5200	4995	5200	-2.83	0.00	0.00	0.00	0.01	0.00
5205	5205	5200	11.93	0.00	0.00	0.00	0.03	0.00
5210	5205	5210	-16.20	0.00	0.00	0.00	0.05	0.00
5215	5210	5260	-11.60	0.00	0.00	0.00	0.03	0.00
5217	5210	5215	-8.89	0.01	0.00	0.00	0.10	0.02
5220	5220	5215	13.16	0.01	0.00	0.00	0.15	0.04
5225	5220	5265	28.09	0.00	0.00	0.00	0.08	0.01
5230	5230	5220	45.52	0.00	0.00	0.00	0.13	0.01
5235	5250	5230	-12.01	0.02	0.00	0.00	0.14	0.03
5237	5230	5235	-62.06	0.01	0.00	0.00	0.18	0.02
5240	5200	5240	2.04	0.00	0.00	0.00	0.02	0.00
5250	5240	5250	-1.18	0.00	0.00	0.00	0.01	0.00
5252	5250	5210	4.28	0.00	0.00	0.00	0.03	0.00
5255	5200	5255	2.80	0.00	0.00	0.00	0.03	0.00
5260	5255	5260	-3.62	0.00	0.00	0.00	0.04	0.00
5265	5260	5265	-60.87	0.01	0.00	0.00	0.17	0.02
5270	5260	5270	32.81	0.02	0.00	0.00	0.21	0.05
5272	5270	5279	31.61	0.03	0.00	0.00	0.20	0.05
5275	5280	5279	-17.54	0.00	0.00	0.00	0.11	0.02
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	4.58	0.00	0.00	0.00	0.03	0.00
5285	5280	5290	-23.68	0.02	0.00	0.00	0.15	0.03
5290	5290	5295	-23.68	0.02	0.00	0.00	0.27	0.12
5292	5265	5292	-4.14	0.00	0.00	0.00	0.05	0.00
5295	5292	5297	-4.14	0.00	0.00	0.00	0.05	0.00
5297	5295	5297	-19.18	0.03	0.00	0.00	0.22	0.08
5500	4540	5500	41.51	0.03	0.00	0.00	0.26	0.08
5510	4550	5510	30.98	0.02	0.00	0.00	0.20	0.05
5520	4560	5520	28.33	0.01	0.00	0.00	0.18	0.04
5530	5500	5530	37.42	0.02	0.00	0.00	0.24	0.07
5535	5040	5530	-76.29	0.12	0.00	0.00	0.49	0.25
5540	5510	5540	26.89	0.01	0.00	0.00	0.17	0.04
5545	5530	5540	-42.96	0.02	0.00	0.00	0.27	0.09
5550	5520	5550	24.24	0.01	0.00	0.00	0.15	0.03
5555	5540	5550	-20.15	0.01	0.00	0.00	0.13	0.02
6000	6000	5235	114.85	0.03	0.00	0.00	0.33	0.07
7000	30	7000	1131.88	0.19	0.00	0.00	1.43	0.72
7005	7000	7005	935.70	0.15	0.00	0.00	1.18	0.51
7010	7005	7010	871.14	0.14	0.00	0.00	1.10	0.44





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7015	7010	7015	795.57	0.22	0.00	0.00	1.00	0.37
7020	7015	7020	593.47	0.14	0.00	0.00	0.75	0.22
7025	7020	7025	555.60	0.12	0.00	0.00	0.70	0.19
7030	7025	7030	995.02	0.04	0.00	0.00	1.25	0.57
7035	7030	7035	811.81	0.34	0.00	0.00	1.02	0.39
7040	7035	7040	792.06	0.19	0.00	0.00	1.00	0.37
7045	7040	7045	791.22	0.21	0.00	0.00	1.00	0.37
7050	7045	7050	776.30	0.10	0.00	0.00	0.98	0.36
7055	7050	7055	739.24	0.09	0.00	0.00	0.93	0.33
7060	7055	7060	791.15	0.19	0.00	0.00	1.00	0.37
7070	7060	7070	353.98	0.04	0.00	0.00	0.45	0.08
7075	8775	7070	-142.85	0.05	0.00	0.00	0.91	0.58
7080	7070	7080	211.12	0.14	0.00	0.00	0.60	0.23
7100	7000	7100	53.09	0.08	0.00	0.00	0.34	0.13
7105	7100	7005	44.70	0.06	0.00	0.00	0.29	0.09
7110	7010	7110	53.37	0.15	0.00	0.00	0.61	0.53
7120	7110	7120	23.32	0.07	0.00	0.00	0.26	0.11
7125	7015	7120	3.01	0.00	0.00	0.00	0.02	0.00
7130	7120	7130	16.37	0.04	0.00	0.00	0.19	0.06
7135	7130	7020	43.58	0.10	0.00	0.00	0.49	0.36
7140	7140	7150	17.48	0.04	0.00	0.00	0.20	0.07
7145	7140	7110	-23.77	0.03	0.00	0.00	0.27	0.12
7150	7150	7160	7.52	0.01	0.00	0.00	0.09	0.01
7155	7150	7120	0.00	0.00	0.00	0.00	0.00	0.00
7165	7160	7130	22.72	0.03	0.00	0.00	0.26	0.11
7167	7160	7210	-25.67	0.09	0.00	0.00	0.29	0.14
7200	7025	7200	-444.40	0.26	0.00	0.00	1.26	0.92
7210	7200	7210	-251.32	0.09	0.00	0.00	0.71	0.32
7215	7200	7210	-214.70	0.09	0.00	0.00	0.61	0.24
7220	7130	7200	-14.97	0.03	0.00	0.00	0.17	0.05
7300	7300	7310	-107.08	0.37	0.00	0.00	1.21	1.92
7310	7310	7000	-135.23	0.26	0.00	0.00	0.86	0.73
7320	7310	7320	22.91	0.03	0.00	0.00	0.26	0.11
7325	7320	7005	-101.41	0.15	0.00	0.00	0.65	0.43
7330	7320	7330	119.07	0.18	0.00	0.00	0.76	0.58
7340	7330	7340	114.70	0.28	0.00	0.00	0.73	0.54
7343	7340	7400	215.65	0.43	0.00	0.00	1.38	1.73
7345	7340	7300	-105.33	0.12	0.00	0.00	0.67	0.46
7350	7015	7350	183.37	0.36	0.00	0.00	1.17	1.28
7355	7350	7360	11.77	0.02	0.00	0.00	0.13	0.03
7360	7360	7020	-69.74	0.23	0.00	0.00	0.79	0.87
7365	7360	7380	74.91	0.27	0.00	0.00	0.85	0.99
7370	7370	7350	-166.36	0.28	0.00	0.00	1.06	1.07



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7373	7370	7410	151.78	0.27	0.00	0.00	0.97	0.90
7375	7370	7380	9.34	0.01	0.00	0.00	0.11	0.02
7385	7380	7415	77.65	0.32	0.00	0.00	0.88	1.06
7390	7420	7390	1.60	0.00	0.00	0.00	0.02	0.00
7400	7400	7405	34.36	0.14	0.00	0.00	0.39	0.23
7403	7400	7430	171.07	0.35	0.00	0.00	1.09	1.13
7405	7405	7410	24.14	0.09	0.00	0.00	0.27	0.12
7410	7410	7415	20.38	0.06	0.00	0.00	0.23	0.09
7413	7410	7440	136.94	0.23	0.00	0.00	0.87	0.75
7415	7415	7420	27.80	0.03	0.00	0.00	0.32	0.16
7418	7415	7445	59.12	0.19	0.00	0.00	0.67	0.64
7420	7420	7425	13.36	0.02	0.00	0.00	0.15	0.04
7425	7425	7450	7.70	0.01	0.00	0.00	0.09	0.01
7430	7430	7435	25.27	0.08	0.00	0.00	0.29	0.13
7433	7430	7455	135.58	0.22	0.00	0.00	0.87	0.73
7435	7435	7440	15.05	0.04	0.00	0.00	0.17	0.05
7440	7440	7445	11.59	0.02	0.00	0.00	0.13	0.03
7443	7440	7465	123.48	0.19	0.00	0.00	0.79	0.62
7448	7445	7470	58.14	0.19	0.00	0.00	0.66	0.62
7455	7455	7460	22.81	0.07	0.00	0.00	0.26	0.11
7458	7455	7480	102.56	0.14	0.00	0.00	0.65	0.44
7459	7495	7520	37.56	0.06	0.00	0.00	0.43	0.28
7460	7460	7465	12.59	0.03	0.00	0.00	0.14	0.04
7465	7465	7470	11.54	0.02	0.00	0.00	0.13	0.03
7468	7465	7490	107.92	0.15	0.00	0.00	0.69	0.48
7473	7470	7495	57.15	0.18	0.00	0.00	0.65	0.60
7480	7480	7485	23.81	0.07	0.00	0.00	0.27	0.12
7483	7480	7505	67.09	0.04	0.00	0.00	0.43	0.20
7485	7485	7490	13.59	0.03	0.00	0.00	0.15	0.04
7490	7490	7495	19.55	0.06	0.00	0.00	0.22	0.08
7493	7490	7515	80.87	0.05	0.00	0.00	0.52	0.28
7495	7495	7500	21.72	0.07	0.00	0.00	0.25	0.10
7500	7500	7475	0.31	0.00	0.00	0.00	0.00	0.00
7503	7500	7080	12.23	0.01	0.00	0.00	0.14	0.03
7504	7080	7525	221.66	0.01	0.00	0.00	0.63	0.25
7505	7505	7510	59.82	0.11	0.00	0.00	0.38	0.16
7508	7505	7550	3.60	0.00	0.00	0.00	0.02	0.00
7510	7510	7515	15.45	0.01	0.00	0.00	0.10	0.01
7513	7510	7530	37.04	0.06	0.00	0.00	0.42	0.27
7515	7515	7520	42.12	0.06	0.00	0.00	0.27	0.08
7518	7515	7535	46.86	0.09	0.00	0.00	0.53	0.42
7520	7520	7525	29.77	0.03	0.00	0.00	0.19	0.04
7523	7520	7540	42.57	0.08	0.00	0.00	0.48	0.35



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7528	7525	7545	246.35	0.06	0.00	0.00	0.70	0.31
7530	7530	7535	16.84	0.04	0.00	0.00	0.19	0.06
7533	7530	7555	16.53	0.01	0.00	0.00	0.19	0.06
7535	7535	7540	17.00	0.04	0.00	0.00	0.19	0.06
7538	7535	7565	39.36	0.11	0.00	0.00	0.45	0.30
7540	7540	7545	9.95	0.02	0.00	0.00	0.11	0.02
7543	7540	7570	42.29	0.12	0.00	0.00	0.48	0.34
7548	7545	7575	252.63	0.12	0.00	0.00	0.72	0.32
7550	7550	7555	36.51	0.17	0.00	0.00	0.41	0.26
7553	7550	7573	-40.25	0.03	0.00	0.00	0.26	0.08
7558	7555	7560	45.71	0.07	0.00	0.00	0.52	0.40
7560	7560	7565	21.99	0.07	0.00	0.00	0.25	0.10
7563	7560	7577	16.38	0.00	0.00	0.00	0.10	0.01
7565	7565	7570	19.49	0.06	0.00	0.00	0.22	0.08
7568	7565	7590	27.18	0.06	0.00	0.00	0.31	0.15
7570	7570	7575	8.71	0.01	0.00	0.00	0.10	0.02
7572	7573	7577	99.61	0.28	0.00	0.00	0.64	0.41
7573	7570	7595	38.40	0.11	0.00	0.00	0.44	0.29
7576	7573	7580	-147.19	0.16	0.00	0.00	0.94	0.85
7577	7577	7585	108.65	0.09	0.00	0.00	0.69	0.49
7578	7575	7600	254.00	0.12	0.00	0.00	0.72	0.33
7582	7580	80	-152.77	0.10	0.00	0.00	0.98	0.92
7583	7580	7605	5.58	0.00	0.00	0.00	0.06	0.01
7585	7585	7590	14.35	0.03	0.00	0.00	0.16	0.05
7588	7585	7610	86.96	0.11	0.00	0.00	0.56	0.32
7590	7590	7595	27.65	0.11	0.00	0.00	0.31	0.16
7595	7595	7600	12.11	0.02	0.00	0.00	0.14	0.03
7598	7595	7620	40.05	0.11	0.00	0.00	0.45	0.31
7603	7600	7625	259.17	0.11	0.00	0.00	0.74	0.34
7610	7610	7615	52.44	0.08	0.00	0.00	0.33	0.13
7613	7610	10000	27.97	0.01	0.00	0.00	0.18	0.04
7615	7615	7620	39.34	0.05	0.00	0.00	0.25	0.07
7620	7620	7625	29.43	0.03	0.00	0.00	0.19	0.04
7623	7620	10020	36.68	0.08	0.00	0.00	0.42	0.26
7628	7625	10030	281.86	0.13	0.00	0.00	0.80	0.40
7700	510	7700	40.54	0.22	0.00	0.00	0.46	0.32
7703	7700	7720	562.88	0.12	0.00	0.00	0.90	0.35
7705	7700	7705	31.18	0.13	0.00	0.00	0.35	0.20
7710	7705	7710	18.68	0.05	0.00	0.00	0.21	0.08
7713	7710	7730	99.88	0.15	0.00	0.00	0.64	0.42
7715	7710	7715	-8.95	0.01	0.00	0.00	0.10	0.02
7718	7715	7735	17.35	0.17	0.00	0.00	0.44	0.48
7720	505	7720	22.81	0.08	0.00	0.00	0.26	0.11





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7723	7720	7740	532.75	0.11	0.00	0.00	0.85	0.32
7725	7720	7725	34.00	0.15	0.00	0.00	0.39	0.23
7730	7725	7730	20.04	0.06	0.00	0.00	0.23	0.09
7733	7730	7750	100.38	0.15	0.00	0.00	0.64	0.42
7735	7730	7735	8.45	0.01	0.00	0.00	0.10	0.02
7738	7735	7755	20.09	0.22	0.00	0.00	0.51	0.62
7740	500	7740	-30.70	0.01	0.00	0.00	0.13	0.02
7743	7740	7760	404.66	0.27	0.00	0.00	1.15	0.77
7745	7740	7745	86.46	0.07	0.00	0.00	0.35	0.11
7750	7745	7750	75.82	0.17	0.00	0.00	0.48	0.25
7753	7750	7770	109.86	0.18	0.00	0.00	0.70	0.50
7755	7750	7755	51.78	0.08	0.00	0.00	0.33	0.12
7758	7755	7775	35.68	0.09	0.00	0.00	0.40	0.25
7760	495	7760	4.84	0.00	0.00	0.00	0.05	0.01
7763	7760	7780	360.71	0.23	0.00	0.00	1.02	0.62
7765	7760	7765	31.03	0.13	0.00	0.00	0.35	0.19
7770	7765	7770	12.01	0.02	0.00	0.00	0.14	0.03
7773	7770	7790	109.58	0.18	0.00	0.00	0.70	0.49
7775	7770	7775	-6.45	0.01	0.00	0.00	0.07	0.01
7778	7775	7795	20.98	0.25	0.00	0.00	0.54	0.68
7780	490	7780	-7.40	0.01	0.00	0.00	0.08	0.01
7782	7780	7805	309.56	0.08	0.00	0.00	0.88	0.47
7783	7805	7800	288.26	0.08	0.00	0.00	0.82	0.41
7785	7780	7785	26.11	0.09	0.00	0.00	0.30	0.14
7790	7785	7790	5.83	0.01	0.00	0.00	0.07	0.01
7793	7790	7820	74.22	0.09	0.00	0.00	0.47	0.24
7795	7790	7795	21.28	0.06	0.00	0.00	0.24	0.10
7798	7795	7825	35.19	0.09	0.00	0.00	0.40	0.25
7800	485	7800	-18.65	0.05	0.00	0.00	0.21	0.08
7803	7800	7900	268.81	0.07	0.00	0.00	0.76	0.36
7805	7805	7810	20.25	0.06	0.00	0.00	0.23	0.09
7810	7800	7815	-2.26	0.01	0.00	0.00	0.06	0.01
7813	7810	7815	19.20	0.02	0.00	0.00	0.22	0.08
7815	7815	7820	15.63	0.04	0.00	0.00	0.18	0.05
7820	7820	7825	7.39	0.06	0.00	0.00	0.19	0.10
7823	7820	7910	79.05	0.05	0.00	0.00	0.50	0.27
7828	7825	7915	40.49	0.00	0.00	0.00	0.11	0.01
7830	465	7830	-17.82	0.05	0.00	0.00	0.20	0.07
7833	7830	7940	86.02	0.11	0.00	0.00	0.55	0.32
7835	7830	7835	-12.76	0.02	0.00	0.00	0.14	0.04
7840	7835	7840	-14.46	0.03	0.00	0.00	0.16	0.05
7843	7840	7950	36.44	0.02	0.00	0.00	0.23	0.06
7845	7840	7845	-8.56	0.01	0.00	0.00	0.10	0.02



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7848	7845	7955	73.90	0.01	0.00	0.00	0.21	0.03
7850	705	7850	-61.71	0.12	0.00	0.00	0.39	0.17
7855	7850	7855	19.85	0.01	0.00	0.00	0.13	0.02
7860	7855	7860	17.12	0.00	0.00	0.00	0.11	0.02
7862	7860	7880	99.56	0.20	0.00	0.00	1.13	1.68
7865	7860	7865	-85.06	0.15	0.00	0.00	0.54	0.31
7870	7865	7870	4.40	0.00	0.00	0.00	0.03	0.00
7875	7875	7880	-49.78	0.08	0.00	0.00	0.56	0.47
7880	7880	7885	49.78	0.17	0.00	0.00	0.56	0.47
7890	7890	7895	-49.78	0.22	0.00	0.00	0.56	0.47
7898	8000	7895	51.09	0.04	0.00	0.00	0.33	0.12
7900	480	7900	-60.26	0.02	0.00	0.00	0.17	0.02
7903	7900	7920	151.67	0.05	0.00	0.00	0.43	0.13
7905	7900	7905	44.41	0.01	0.00	0.00	0.13	0.01
7910	7905	7910	33.51	0.01	0.00	0.00	0.10	0.01
7913	7910	7930	44.25	0.03	0.00	0.00	0.28	0.09
7915	7910	7915	57.90	0.01	0.00	0.00	0.16	0.02
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	96.27	0.02	0.00	0.00	0.27	0.05
7920	470	7920	-44.07	0.06	0.00	0.00	0.28	0.09
7923	7920	7830	96.32	0.08	0.00	0.00	0.61	0.39
7925	7920	7925	5.91	0.00	0.00	0.00	0.02	0.00
7930	7925	7930	0.67	0.00	0.00	0.00	0.00	0.00
7933	7930	7840	46.26	0.02	0.00	0.00	0.30	0.10
7935	7930	7935	-6.58	0.00	0.00	0.00	0.02	0.00
7937	7845	7937	0.29	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	85.76	0.01	0.00	0.00	0.24	0.04
7940	700	7940	-124.08	0.06	0.00	0.00	0.35	0.09
7943	7940	7850	86.38	0.11	0.00	0.00	0.55	0.32
7945	7940	7945	-135.70	0.07	0.00	0.00	0.38	0.10
7950	7945	7950	-146.96	0.08	0.00	0.00	0.42	0.12
7953	7950	7865	92.08	0.13	0.00	0.00	0.59	0.36
7955	7950	7955	-211.25	0.02	0.00	0.00	0.27	0.03
8000	710	8000	38.86	0.20	0.00	0.00	0.44	0.29
8003	8000	8020	-31.68	0.01	0.00	0.00	0.20	0.05
8005	8000	8005	12.06	0.02	0.00	0.00	0.14	0.03
8010	8005	8010	3.46	0.00	0.00	0.00	0.04	0.00
8013	8010	8030	-5.79	0.00	0.00	0.00	0.07	0.01
8015	8010	8015	2.17	0.00	0.00	0.00	0.02	0.00
8020	715	8020	32.57	0.14	0.00	0.00	0.37	0.21
8023	8020	8040	-20.03	0.01	0.00	0.00	0.13	0.02
8025	8020	8025	13.53	0.02	0.00	0.00	0.15	0.04
8030	8025	8030	4.60	0.00	0.00	0.00	0.05	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8033	8030	8050	-18.74	0.03	0.00	0.00	0.21	0.08
8035	8030	8035	6.16	0.01	0.00	0.00	0.07	0.01
8040	720	8040	111.62	0.05	0.00	0.00	0.32	0.07
8043	8040	8060	41.51	0.03	0.00	0.00	0.26	0.08
8045	8040	8045	36.41	0.01	0.00	0.00	0.10	0.01
8050	8045	8050	22.74	0.00	0.00	0.00	0.06	0.00
8053	8050	8070	37.28	0.09	0.00	0.00	0.42	0.27
8055	8050	8055	-44.82	0.01	0.00	0.00	0.13	0.01
8060	725	8060	14.05	0.03	0.00	0.00	0.16	0.04
8065	8060	8065	35.75	0.17	0.00	0.00	0.41	0.25
8070	8065	8070	-26.80	0.10	0.00	0.00	0.30	0.15
8075	8075	8060	-8.80	0.01	0.00	0.00	0.10	0.02
8080	730	8080	9.07	0.00	0.00	0.00	0.06	0.00
8085	8080	8085	4.53	0.01	0.00	0.00	0.12	0.04
8090	8065	8090	54.69	0.11	0.00	0.00	0.35	0.14
8095	8090	8095	-3.36	0.00	0.00	0.00	0.02	0.00
8100	750	8100	56.47	0.10	0.00	0.00	0.36	0.14
8105	8100	8105	56.47	0.05	0.00	0.00	0.36	0.14
8110	8105	8110	28.50	0.01	0.00	0.00	0.18	0.04
8115	8105	8115	21.64	0.02	0.00	0.00	0.14	0.02
8117	8115	8120	-0.07	0.00	0.00	0.00	0.00	0.00
8120	8110	8120	7.72	0.00	0.00	0.00	0.05	0.00
8125	8115	8125	1.31	0.00	0.00	0.00	0.01	0.00
8130	8120	8130	1.31	0.00	0.00	0.00	0.01	0.00
8135	8095	8135	-13.61	0.00	0.00	0.00	0.09	0.01
8137	8135	8115	-16.44	0.00	0.00	0.00	0.10	0.01
8140	8095	8140	0.55	0.00	0.00	0.00	0.00	0.00
8145	8110	8145	16.82	0.01	0.00	0.00	0.11	0.02
8200	8055	8200	-49.53	0.04	0.00	0.00	0.32	0.11
8205	8200	8205	0.50	0.00	0.00	0.00	0.00	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-50.55	0.06	0.00	0.00	0.30	0.12
8220	8215	8220	-31.68	0.13	0.00	0.00	0.30	0.20
8225	8220	8225	-43.73	0.20	0.00	0.00	0.50	0.37
8227	8225	8240	110.60	0.03	0.00	0.00	0.31	0.07
8230	8215	8230	-26.42	0.02	0.00	0.00	0.17	0.04
8235	8230	8235	-28.50	0.11	0.00	0.00	0.32	0.17
8240	8235	8240	-40.55	0.18	0.00	0.00	0.46	0.32
8247	8240	8265	58.00	0.01	0.00	0.00	0.16	0.02
8250	8230	8250	-9.98	0.00	0.00	0.00	0.06	0.01
8255	8250	8255	-16.01	0.04	0.00	0.00	0.18	0.06
8260	8255	8260	-25.41	0.01	0.00	0.00	0.29	0.13
8265	8260	8265	-48.05	0.23	0.00	0.00	0.55	0.44





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8270	8255	8270	3.38	0.00	0.00	0.00	0.02	0.00
8275	8270	8275	0.24	0.00	0.00	0.00	0.00	0.00
8278	8275	8290	-5.66	0.00	0.00	0.00	0.04	0.00
8280	8275	8280	2.75	0.00	0.00	0.00	0.02	0.00
8285	8280	8285	-0.39	0.00	0.00	0.00	0.00	0.00
8290	8285	8290	-5.24	0.00	0.00	0.00	0.03	0.00
8295	8290	8295	-15.75	0.00	0.00	0.00	0.10	0.01
8297	8295	8260	-16.61	0.00	0.00	0.00	0.11	0.02
8300	10200	8300	94.09	0.23	0.00	0.00	0.60	0.37
8303	10200	8300	44.53	0.23	0.00	0.00	0.51	0.38
8305	8300	8310	136.35	0.07	0.00	0.00	0.39	0.10
8310	8310	8320	165.23	0.09	0.00	0.00	0.47	0.15
8325	8320	8225	164.76	0.03	0.00	0.00	0.47	0.15
8330	8310	8330	-28.88	0.02	0.00	0.00	0.18	0.04
8340	8330	8340	-28.88	0.03	0.00	0.00	0.18	0.04
8350	8340	8350	2.62	0.00	0.00	0.00	0.03	0.00
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-31.50	0.12	0.00	0.00	0.36	0.20
8390	8380	10190	-35.43	0.17	0.00	0.00	0.40	0.25
8400	10070	8400	9.06	0.00	0.00	0.00	0.06	0.00
8410	8400	8410	34.34	0.02	0.00	0.00	0.22	0.06
8420	8410	8420	27.54	0.00	0.00	0.00	0.18	0.04
8425	8420	10080	31.25	0.00	0.00	0.00	0.09	0.01
8430	8410	8430	6.49	0.00	0.00	0.00	0.04	0.00
8440	8430	8440	6.17	0.00	0.00	0.00	0.04	0.00
8450	8440	8450	4.23	0.00	0.00	0.00	0.05	0.00
8455	8450	8420	3.71	0.00	0.00	0.00	0.01	0.00
8460	8440	8460	1.36	0.00	0.00	0.00	0.03	0.00
8470	8460	8470	0.68	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	174.03	0.06	0.00	0.00	0.49	0.16
8510	8500	8510	173.38	0.06	0.00	0.00	0.49	0.16
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	143.40	0.04	0.00	0.00	0.41	0.11
8525	8520	8525	4.03	0.00	0.00	0.00	0.05	0.00
8530	8520	8530	138.82	0.02	0.00	0.00	0.39	0.11
8540	8530	8540	138.68	0.02	0.00	0.00	0.39	0.11
8550	8540	8550	136.88	0.04	0.00	0.00	0.39	0.10
8555	8550	10200	109.78	0.07	0.00	0.00	0.45	0.17
8560	8550	8560	13.39	0.01	0.00	0.00	0.09	0.01
8600	10100	8600	37.57	0.10	0.00	0.00	0.43	0.28
8605	8600	8610	14.01	0.02	0.00	0.00	0.16	0.04
8610	10110	8610	33.53	0.08	0.00	0.00	0.38	0.22





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8615	8610	10140	11.77	0.02	0.00	0.00	0.13	0.03
8620	8600	8620	19.65	0.03	0.00	0.00	0.22	0.08
8622	8620	8510	-29.03	0.06	0.00	0.00	0.33	0.17
8625	8620	8630	18.78	0.03	0.00	0.00	0.21	0.08
8630	8610	8630	23.17	0.04	0.00	0.00	0.26	0.11
8635	8630	10160	10.45	0.02	0.00	0.00	0.12	0.03
8640	8620	8640	25.64	0.05	0.00	0.00	0.29	0.14
8645	8640	8650	4.75	0.00	0.00	0.00	0.05	0.01
8650	8630	8650	17.73	0.03	0.00	0.00	0.20	0.07
8655	8650	10170	6.22	0.01	0.00	0.00	0.07	0.01
8660	8640	8660	19.98	0.01	0.00	0.00	0.13	0.02
8665	8660	8670	15.58	0.00	0.00	0.00	0.10	0.01
8670	8650	8670	10.86	0.01	0.00	0.00	0.12	0.03
8675	8670	10180	7.57	0.01	0.00	0.00	0.09	0.01
8680	8660	8680	3.77	0.00	0.00	0.00	0.04	0.00
8685	8680	8550	-0.16	0.00	0.00	0.00	0.00	0.00
8690	8670	8690	16.51	0.04	0.00	0.00	0.19	0.06
8692	8690	10200	41.28	0.02	0.00	0.00	0.17	0.03
8695	8690	10190	-24.77	0.01	0.00	0.00	0.10	0.01
8700	8400	8700	-29.63	0.02	0.00	0.00	0.19	0.04
8705	8700	7755	-24.79	0.00	0.00	0.00	0.16	0.03
8710	8700	8710	-9.24	0.05	0.00	0.00	0.24	0.15
8715	8710	10060	-15.55	0.03	0.00	0.00	0.18	0.05
8720	10060	8720	2.78	0.00	0.00	0.00	0.03	0.00
8725	8725	10050	-5.27	0.00	0.00	0.00	0.06	0.01
8730	10050	8730	3.22	0.00	0.00	0.00	0.04	0.00
8735	10040	8735	6.47	0.01	0.00	0.00	0.07	0.01
8740	10040	8740	1.44	0.00	0.00	0.00	0.01	0.00
8745	8740	8745	4.59	0.00	0.00	0.00	0.05	0.01
8750	8740	8750	-7.73	0.00	0.00	0.00	0.05	0.00
8755	8750	8755	117.90	1.28	0.00	0.00	1.34	2.30
8760	8750	8760	-130.17	0.37	0.00	0.00	0.83	0.68
8765	8760	8765	1.68	0.00	0.00	0.00	0.02	0.00
8770	8760	8770	1.31	0.00	0.00	0.00	0.01	0.00
8775	8760	8775	-138.92	0.46	0.00	0.00	0.89	0.77
8800	10100	8800	0.52	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	5.32	0.00	0.00	0.00	0.06	0.01
8810	8810	8900	5.84	0.04	0.00	0.00	0.15	0.06
8815	8810	8820	-6.71	0.00	0.00	0.00	0.08	0.01
8820	8820	8910	10.88	0.02	0.00	0.00	0.12	0.03
8825	8820	8830	-24.93	0.04	0.00	0.00	0.28	0.13
8830	8830	8920	13.27	0.03	0.00	0.00	0.15	0.04
8835	8830	8840	-40.64	0.13	0.00	0.00	0.46	0.32



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8840	8840	8845	0.86	0.00	0.00	0.00	0.01	0.00
8845	8840	8850	-42.34	0.24	0.00	0.00	0.48	0.35
8850	8850	8970	-43.44	0.25	0.00	0.00	0.49	0.36
8900	8900	10120	89.21	0.01	0.00	0.00	0.25	0.05
8910	8900	8910	-115.02	0.03	0.00	0.00	0.33	0.08
8920	8910	8920	-139.72	0.04	0.00	0.00	0.40	0.11
8930	8920	8930	-153.69	0.05	0.00	0.00	0.44	0.13
8940	8930	8940	-178.47	0.05	0.00	0.00	0.51	0.17
8950	8940	8950	-178.76	0.07	0.00	0.00	0.51	0.17
8960	8950	8960	-179.02	0.11	0.00	0.00	0.51	0.17
8965	8960	8975	-355.38	0.14	0.00	0.00	1.01	0.43
8970	8970	8975	358.21	0.21	0.00	0.00	1.02	0.62
8980	8970	8980	-402.70	0.35	0.00	0.00	1.14	0.76
8990	8980	7060	-437.18	0.37	0.00	0.00	1.24	0.89
9000	10190	9000	-10.03	0.00	0.00	0.00	0.03	0.00
9010	9000	9010	-12.34	0.00	0.00	0.00	0.04	0.00
9020	9010	9020	-12.45	0.00	0.00	0.00	0.04	0.00
9030	9020	9030	-12.45	0.00	0.00	0.00	0.04	0.00
9040	9040	9030	13.10	0.00	0.00	0.00	0.04	0.00
9050	9040	9050	-13.10	0.00	0.00	0.00	0.04	0.00
9060	9050	9060	-41.30	0.00	0.00	0.00	0.12	0.01
9070	9060	9070	-60.95	0.01	0.00	0.00	0.17	0.02
9080	9070	9080	-84.58	0.02	0.00	0.00	0.24	0.04
9090	9080	9090	-109.70	0.03	0.00	0.00	0.31	0.07
9100	9090	9100	-120.82	0.01	0.00	0.00	0.34	0.08
9110	9100	9110	-136.67	0.03	0.00	0.00	0.39	0.10
9115	9110	9115	2.62	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-135.86	0.04	0.00	0.00	0.39	0.10
9130	9120	9130	-120.12	0.07	0.00	0.00	0.34	0.08
9140	9130	9140	-55.47	0.01	0.00	0.00	0.16	0.02
9150	9140	9150	-56.44	0.01	0.00	0.00	0.16	0.02
9160	9150	9160	-106.86	0.03	0.00	0.00	0.30	0.07
9170	9170	9160	106.86	0.01	0.00	0.00	0.30	0.07
9175	9170	9175	39.99	0.07	0.00	0.00	0.26	0.08
9180	9180	9170	174.86	0.10	0.00	0.00	0.50	0.16
9190	9190	9180	174.86	0.10	0.00	0.00	0.50	0.16
9195	8960	9190	174.86	0.02	0.00	0.00	0.50	0.16
9200	7055	9200	-32.29	0.02	0.00	0.00	0.21	0.05
9210	9200	9210	-36.93	0.03	0.00	0.00	0.24	0.07
9215	9210	9240	-41.57	0.02	0.00	0.00	0.27	0.08
9220	7050	9220	-13.17	0.00	0.00	0.00	0.08	0.01
9230	9220	9230	-17.20	0.00	0.00	0.00	0.11	0.02
9235	9230	9260	-66.94	0.05	0.00	0.00	0.43	0.20



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9240	9230	9240	43.77	0.02	0.00	0.00	0.28	0.09
9250	7045	9250	33.54	0.02	0.00	0.00	0.21	0.06
9260	9250	9260	29.29	0.01	0.00	0.00	0.19	0.04
9265	9260	9280	-43.84	0.02	0.00	0.00	0.28	0.09
9270	7045	9860	-18.61	0.00	0.00	0.00	0.12	0.02
9275	9270	9860	-23.07	0.01	0.00	0.00	0.15	0.03
9280	9270	9280	19.01	0.01	0.00	0.00	0.12	0.02
9300	7030	9300	83.70	0.16	0.00	0.00	0.53	0.30
9310	9300	9310	83.70	0.09	0.00	0.00	0.53	0.30
9315	9330	9310	-83.70	0.09	0.00	0.00	0.53	0.30
9320	7030	9320	87.76	0.17	0.00	0.00	0.56	0.33
9330	9320	9330	85.40	0.17	0.00	0.00	0.55	0.31
9333	9330	9333	156.64	0.23	0.00	0.00	1.00	0.96
9335	9333	9337	59.61	0.07	0.00	0.00	0.38	0.16
9337	9370	9337	-77.39	0.07	0.00	0.00	0.49	0.26
9340	9280	9340	-30.25	0.00	0.00	0.00	0.09	0.01
9345	9340	9345	-12.21	0.00	0.00	0.00	0.08	0.01
9348	9345	9355	-15.20	0.00	0.00	0.00	0.10	0.01
9350	9340	9350	-22.62	0.01	0.00	0.00	0.14	0.03
9355	9350	9355	3.97	0.00	0.00	0.00	0.03	0.00
9360	9350	9360	-31.91	0.01	0.00	0.00	0.20	0.05
9365	9355	9365	-15.47	0.00	0.00	0.00	0.10	0.01
9368	9365	9385	-16.65	0.00	0.00	0.00	0.11	0.02
9370	9360	9370	-49.25	0.01	0.00	0.00	0.31	0.11
9375	9360	9375	11.26	0.00	0.00	0.00	0.07	0.01
9380	9370	9380	24.28	0.00	0.00	0.00	0.15	0.03
9385	9375	9385	17.88	0.00	0.00	0.00	0.11	0.02
9387	9375	9390	-11.60	0.00	0.00	0.00	0.07	0.01
9390	9380	9390	19.80	0.01	0.00	0.00	0.13	0.02
9395	9390	9395	2.99	0.00	0.00	0.00	0.02	0.00
9400	7210	9400	-497.91	1.42	0.00	0.00	1.41	1.13
9410	9400	9410	34.19	0.00	0.00	0.00	0.10	0.01
9415	9410	9415	3.98	0.00	0.00	0.00	0.03	0.00
9420	9410	9420	31.57	0.00	0.00	0.00	0.09	0.01
9425	9415	9425	2.67	0.00	0.00	0.00	0.02	0.00
9430	9420	9430	24.52	0.00	0.00	0.00	0.07	0.00
9435	9425	9410	1.36	0.00	0.00	0.00	0.01	0.00
9440	9430	9440	24.52	0.00	0.00	0.00	0.07	0.00
9460	9400	9460	-541.69	0.07	0.00	0.00	0.68	0.18
9470	9460	9470	-544.83	0.05	0.00	0.00	0.69	0.19
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00
9490	9440	9490	5.66	0.00	0.00	0.00	0.04	0.00
9500	8930	9500	20.59	0.06	0.00	0.00	0.23	0.09





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9503	9500	9510	4.75	0.00	0.00	0.00	0.05	0.01
9505	9500	9505	9.29	0.01	0.00	0.00	0.11	0.02
9507	9175	9505	35.77	0.03	0.00	0.00	0.23	0.06
9510	8920	9510	20.48	0.01	0.00	0.00	0.13	0.02
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	14.99	0.03	0.00	0.00	0.17	0.05
9520	8910	9520	20.49	0.06	0.00	0.00	0.23	0.09
9525	9520	9525	8.89	0.01	0.00	0.00	0.10	0.02
9530	8900	9530	23.32	0.08	0.00	0.00	0.26	0.11
9535	9530	9535	12.13	0.02	0.00	0.00	0.14	0.03
9540	10130	9540	26.00	0.10	0.00	0.00	0.29	0.14
9545	9540	9545	15.57	0.04	0.00	0.00	0.18	0.05
9550	10150	9550	33.79	0.07	0.00	0.00	0.38	0.23
9555	9550	9555	33.79	0.09	0.00	0.00	0.38	0.23
9557	9555	9570	44.36	0.02	0.00	0.00	0.28	0.09
9560	9555	9560	-16.93	0.04	0.00	0.00	0.19	0.06
9565	10160	9565	135.60	0.22	0.00	0.00	0.87	0.73
9570	9565	9570	-58.28	0.06	0.00	0.00	0.37	0.15
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.18	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-13.92	0.00	0.00	0.00	0.09	0.01
9590	9590	9595	4.06	0.00	0.00	0.00	0.03	0.00
9600	9505	9600	42.71	0.02	0.00	0.00	0.27	0.09
9605	9600	9515	24.53	0.01	0.00	0.00	0.16	0.03
9610	9515	9605	32.86	0.05	0.00	0.00	0.37	0.22
9615	9605	9525	22.42	0.01	0.00	0.00	0.25	0.11
9620	9525	9610	27.64	0.03	0.00	0.00	0.31	0.16
9625	9610	9535	25.14	0.02	0.00	0.00	0.29	0.13
9630	9535	9545	29.64	0.07	0.00	0.00	0.34	0.18
9635	9545	9560	35.43	0.02	0.00	0.00	0.23	0.06
9640	9560	9640	16.47	0.01	0.00	0.00	0.11	0.01
9645	9640	9585	19.18	0.05	0.00	0.00	0.22	0.08
9650	9640	9650	-0.18	0.00	0.00	0.00	0.00	0.00
9655	9650	9590	7.52	0.00	0.00	0.00	0.05	0.00
9660	9595	9660	3.14	0.00	0.00	0.00	0.04	0.00
9665	9650	9670	-13.38	0.03	0.00	0.00	0.15	0.04
9670	9670	9675	1.73	0.00	0.00	0.00	0.02	0.00
9673	9670	9673	-17.34	0.00	0.00	0.00	0.11	0.02
9675	9680	9673	-10.86	0.00	0.00	0.00	0.07	0.01
9678	9673	9050	-28.20	0.02	0.00	0.00	0.18	0.04
9680	9640	9680	-13.77	0.03	0.00	0.00	0.16	0.04
9683	9680	9060	-14.28	0.03	0.00	0.00	0.16	0.05
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	28.01	0.02	0.00	0.00	0.18	0.04
9710	9700	9710	26.89	0.01	0.00	0.00	0.17	0.04
9720	9710	9720	26.89	0.02	0.00	0.00	0.17	0.04
9725	9720	9130	67.08	0.02	0.00	0.00	0.19	0.03
9730	9150	9730	45.17	0.00	0.00	0.00	0.13	0.01
9735	9730	9720	44.00	0.00	0.00	0.00	0.12	0.01
9740	9600	9740	18.18	0.01	0.00	0.00	0.12	0.02
9745	9740	9120	18.18	0.01	0.00	0.00	0.12	0.02
9750	9605	9750	6.93	0.01	0.00	0.00	0.08	0.01
9755	9750	9110	3.42	0.00	0.00	0.00	0.04	0.00
9760	9610	9760	0.30	0.00	0.00	0.00	0.00	0.00
9765	9760	9100	-9.27	0.00	0.00	0.00	0.06	0.01
9770	9535	9770	-1.51	0.00	0.00	0.00	0.02	0.00
9775	9770	9090	-8.11	0.01	0.00	0.00	0.09	0.02
9780	9545	9780	-4.68	0.00	0.00	0.00	0.05	0.01
9785	9780	9080	-19.22	0.05	0.00	0.00	0.22	0.08
9790	9560	9790	-10.71	0.02	0.00	0.00	0.12	0.03
9795	9790	9070	-17.73	0.04	0.00	0.00	0.20	0.07
9800	9333	9800	95.04	0.06	0.00	0.00	0.61	0.38
9810	9800	9810	23.59	0.01	0.00	0.00	0.15	0.03
9815	9810	9337	20.68	0.00	0.00	0.00	0.13	0.02
9820	9800	9820	69.45	0.06	0.00	0.00	0.44	0.21
9830	9820	9830	23.60	0.01	0.00	0.00	0.15	0.03
9835	9830	9850	17.57	0.00	0.00	0.00	0.11	0.02
9840	9820	9840	40.62	0.02	0.00	0.00	0.26	0.08
9850	9840	9850	-11.54	0.00	0.00	0.00	0.07	0.01
9860	9840	9860	46.92	0.03	0.00	0.00	0.30	0.10
9870	7050	9870	40.94	0.04	0.00	0.00	0.26	0.08
9880	9870	9880	34.92	0.02	0.00	0.00	0.22	0.06
9890	9880	7055	28.89	0.02	0.00	0.00	0.18	0.04
9900	9140	9900	0.00	0.00	0.00	0.00	0.00	0.00
9910	9900	9910	0.00	0.00	0.00	0.00	0.00	0.00
9920	9910	9920	0.00	0.00	0.00	0.00	0.00	0.00
10003	10000	7700	566.62	0.13	0.00	0.00	0.90	0.35
10005	100	10000	1042.12	0.43	0.00	0.00	1.31	0.62
10010	10000	10010	493.65	0.10	0.00	0.00	0.62	0.15
10020	10010	10020	480.55	0.10	0.00	0.00	0.61	0.15
10023	10020	7710	84.61	0.11	0.00	0.00	0.54	0.31
10030	10020	10030	419.52	0.08	0.00	0.00	0.53	0.11
10033	10030	7715	32.85	0.02	0.00	0.00	0.21	0.05
10040	10030	10040	656.85	0.18	0.00	0.00	0.83	0.26



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
10050	10040	10050	642.65	0.09	0.00	0.00	0.81	0.25
10060	10050	10060	625.67	0.09	0.00	0.00	0.79	0.24
10070	10060	10070	600.79	0.08	0.00	0.00	0.76	0.22
10080	10070	10080	591.73	0.03	0.00	0.00	0.75	0.22
10090	10080	10090	619.05	0.09	0.00	0.00	0.78	0.24
10100	10090	10100	444.78	0.05	0.00	0.00	0.56	0.13
10110	10100	10110	401.85	0.04	0.00	0.00	0.51	0.11
10115	10110	10115	363.37	0.01	0.00	0.00	0.46	0.09
10120	10115	10120	355.30	0.05	0.00	0.00	0.45	0.08
10130	10120	10130	440.13	0.02	0.00	0.00	0.55	0.13
10140	10130	10140	409.52	0.02	0.00	0.00	0.52	0.11
10150	10140	10150	412.60	0.02	0.00	0.00	0.52	0.11
10160	10150	10160	378.80	0.02	0.00	0.00	0.48	0.09
10170	10160	10170	228.76	0.01	0.00	0.00	0.29	0.04
10180	10170	10180	229.83	0.01	0.00	0.00	0.29	0.04
10185	10180	10185	235.91	0.00	0.00	0.00	0.30	0.04
10190	10185	10190	217.36	0.02	0.00	0.00	0.27	0.03
10195	10190	10195	164.83	0.01	0.00	0.00	0.21	0.02
10200	10195	10200	164.83	0.01	0.00	0.00	0.21	0.02
10210	10200	10210	161.80	0.01	0.00	0.00	0.20	0.02
10220	10210	7955	142.07	0.01	0.00	0.00	0.18	0.02
14100	4100	14100	23.19	0.01	0.00	0.00	0.15	0.03
14105	3080	14110	115.45	0.18	0.00	0.00	0.74	0.54
14110	14100	14110	17.95	0.01	0.00	0.00	0.11	0.02
14113	14110	14115	2.62	0.00	0.00	0.00	0.02	0.00
14115	14110	14130	122.92	0.17	0.00	0.00	0.78	0.61
14120	14120	4115	-10.22	0.00	0.00	0.00	0.07	0.01
14130	14120	14130	4.98	0.00	0.00	0.00	0.03	0.00
14133	14130	14135	2.62	0.00	0.00	0.00	0.02	0.00
14135	14130	14150	117.43	0.16	0.00	0.00	0.75	0.56
14140	4130	14140	22.60	0.00	0.00	0.00	0.14	0.03
14150	14150	14140	26.24	0.02	0.00	0.00	0.17	0.04
14155	14150	14170	87.91	0.09	0.00	0.00	0.56	0.33
14160	14140	14160	44.25	0.02	0.00	0.00	0.28	0.09
14170	14160	14170	37.04	0.04	0.00	0.00	0.24	0.07
14175	14170	4266	117.75	0.08	0.00	0.00	0.75	0.57
20000	0	20000	7356.79	0.10	0.00	0.00	3.34	1.92
20010	20000	20010	7356.79	0.10	0.00	0.00	3.34	1.92
20020	20010	20020	7356.79	0.10	0.00	0.00	3.34	1.92
20030	20020	20100	7356.79	0.14	0.00	0.00	3.34	1.92
20100	20100	20110	3670.94	0.22	0.00	0.91	7.65	21.63
20105	20100	20200	3685.85	0.01	0.00	0.02	1.67	0.53
20110	20110	20120	3670.94	0.55	117.46	4.21	10.41	45.83





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
20120	20120	20130	3670.94	0.46	0.00	2.53	10.41	45.83
20130	20130	20140	3670.94	0.55	0.00	0.84	10.41	45.83
20140	20140	20240	3670.94	0.17	0.00	0.27	5.86	11.29
20200	20200	20210	3685.85	0.22	0.00	0.92	7.68	21.79
20205	20200	20300	0.00	0.00	0.00	0.00	0.00	0.00
20210	20210	20220	3685.85	0.55	117.13	4.24	10.46	46.17
20220	20220	20230	3685.85	0.46	0.00	2.55	10.46	46.17
20230	20230	20240	3685.85	0.55	0.00	0.85	10.46	46.17
20240	20240	20340	7356.79	0.09	0.00	0.21	5.22	5.68
20300	20300	20310	0.00	0.00	0.00	0.00	0.00	0.00
20305	20300	20400	0.00	0.00	0.00	0.00	0.00	0.00
20310	20310	20320						
20320	20320	20330	0	0	0	0	0	0
20330	20330	20340	0	0	0	0	0	0
20340	20340	20440	7356.79	0.03	0	0.09	3.34	1.92
20400	20400	20410	0	0	0	0	0	0
20410	20410	20420						
20420	20420	20430	0	0	0	0	0	0
20430	20430	20440	0	0	0	0	0	0
20440	20440	20500	7356.79	0.48	0	0.09	3.34	1.92
20500	20500	5	7356.79	0.4	0	0	3.34	1.92
21000	5040	21000	0	0	0	0	0	0
21010	21000	21010	0	0	0	0	0	0
21020	21010	21020	0	0	0	0	0	0
21030	21330	21020	0	0	0	0	0	0
21040	21100	21040	0	0	0	0	0	0
21050	21040	21050	0	0	0	0	0	0
21060	21020	21050						
21100	21100	21110	0	0	0	0	0	0
21105	21100	21200	0	0	0	0	0	0
21110	21110	21120						
21120	21120	21130	0	0	0	0	0	0
21130	21130	21230	0	0	0	0	0	0
21200	21200	21210	0	0	0	0	0	0
21205	21200	21300	0	0	0	0	0	0
21210	21210	21220						
21220	21220	21230	0	0	0	0	0	0
21230	21230	21330	0	0	0	0	0	0
21400	21050	0	0	0	0	0	0	0
23000	6000	23000	132.66	0.01	0	0	0.17	0.01
23010	23000	23010	132.22	0.01	0	0	0.17	0.01
23020	23010	23020	1.31	0	0	0	0	0
23030	23020	23030	1.31	0	0	0	0	0





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
23040	23030	23040	1.31	0	0	0	0	0
23050	23010	23050	130.91	0.01	0	0	0.17	0.01
23060	23050	23060	130.91	0.01	0	0	0.17	0.01
23070	23060	23070	81.55	0	0	0	0.1	0.01
23080	23070	23100	54.97	0	0	0	0.07	0
23100	23120	5295	7.62	0	0	0	0.03	0
23110	23100	23110	54.97	0.03	0	0	0.22	0.05
23120	23110	23120	10.43	0	0	0	0.04	0
23200	5297	23200	-23.32	0	0	0	0.07	0
23210	23200	23210	-23.32	0	0	0	0.07	0
23220	23210	23220	-23.32	0	0	0	0.07	0
23230	23220	23070	-23.32	0	0	0	0.07	0
23235	23070	23230	-2.24	0	0	0	0.01	0
23240	23230	23240	-7.74	0	0	0	0.02	0
23400	5265	23400	-35.06	0	0	0	0.1	0.01
23410	23400	23410	-35.06	0	0	0	0.1	0.01
23420	23410	23420	-35.06	0	0	0	0.1	0.01
23430	23420	23060	-35.06	0	0	0	0.1	0.01
23445	23240	23540	-14.29	0	0	0	0.04	0
23500	23060	23500	14.29	0	0	0	0.04	0
23510	23500	23510	14.29	0	0	0	0.04	0
23520	23510	23520	14.29	0	0	0	0.04	0
23530	23520	23530	14.29	0	0	0	0.04	0
23540	23530	23540	14.29	0	0	0	0.04	0
23550	23540	23550	0	0	0	0	0	0
24000	10	24000	269.86	14.06	0	0	1.72	2.63
40060	2230	40060	1101.71	0.06	0	0	0.62	0.1
40070	40060	40070	1101.71	0.04	0	0	0.62	0.1
40080	40070	40080	1101.71	0.02	0	0	0.62	0.1
40090	40080	3040	1101.71	0.11	0	0	0.62	0.1
60000	5	210	1687.65	0.32	0	0	1.2	0.27
60005	210	220	1712.34	0.38	0	0	1.21	0.27
60010	220	230	1264.39	0.94	0	0	1.59	0.63



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	195.96	67.5	128.46	55.67
10		0.00	195.80	67.5	128.30	55.60
15		0.00	194.92	66.5	128.42	55.65
20		0.00	194.10	66.5	127.60	55.29
30		0.00	193.37	64.0	129.37	56.06
40		0.00	193.16	62.5	130.66	56.62
50		4.06	193.05	61.0	132.05	57.22
60		4.98	192.53	60.5	132.03	57.21
70		4.98	192.14	60.0	132.14	57.26
80		0.42	191.56	58.0	133.56	57.87
90		4.77	191.33	57.5	133.83	57.99
100		7.26	191.23	57.0	134.23	58.16
210		0.00	195.64	68.5	127.14	55.09
220		0.00	195.26	68.5	126.76	54.93
230		0.00	194.32	67.0	127.32	55.17
240		0.00	193.48	66.0	127.48	55.24
250		0.00	192.56	64.5	128.06	55.49
260		54.08	191.92	64.0	127.92	55.43
270		7.86	191.75	63.0	128.75	55.79
280		0.00	191.65	62.5	129.15	55.96
300		15.85	191.42	62.0	129.42	56.08
305		9.27	191.20	61.0	130.20	56.42
310		9.64	191.11	60.5	130.61	56.60
315		10.48	191.02	60.0	131.02	56.78
320		13.36	191.06	59.5	131.56	57.01
325		18.47	191.14	58.5	132.64	57.48
330		12.10	191.22	58.0	133.22	57.73
335		4.77	191.24	57.8	133.44	57.83
400		8.23	190.83	59.5	131.33	56.91
405		8.20	190.66	59.0	131.66	57.05
410		8.20	190.49	59.0	131.49	56.98
415		13.20	190.40	58.5	131.90	57.15
420		8.20	190.20	58.0	132.20	57.29
425		16.01	190.03	57.5	132.53	57.43
430		0.00	189.93	57.5	132.43	57.39
435		7.36	189.85	57.0	132.85	57.57
440		3.69	189.73	56.0	133.73	57.95
445		2.10	189.67	55.8	133.87	58.01
450		14.54	189.63	55.8	133.83	57.99
455		14.41	189.50	55.6	133.90	58.03
457		7.94	189.51	55.2	134.31	58.20
459		14.12	189.52	53.8	135.72	58.81
460	9TH & BROA	0.00	189.52	53.5	136.02	58.94



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	13.62	189.52	52.7	136.82	59.29
470		4.48	189.59	52.5	137.09	59.40
475		1.55	189.63	52.8	136.83	59.29
480		0.97	189.68	53.3	136.38	59.10
485		7.62	189.72	53.5	136.22	59.03
490		21.01	189.92	53.8	136.12	58.98
495		17.92	190.16	54.0	136.16	59.00
500		10.72	190.42	54.8	135.62	58.77
505		15.62	190.62	55.7	134.92	58.46
510		12.60	190.88	56.4	134.48	58.28
600		7.36	189.39	55.5	133.89	58.02
605		12.97	189.31	55.3	134.01	58.07
610		26.62	189.10	55.0	134.10	58.11
615		8.20	188.99	54.0	134.99	58.49
620		8.83	188.89	53.0	135.89	58.88
625		6.13	188.86	52.0	136.86	59.31
630		1.83	188.84	51.8	137.04	59.38
635		1.83	188.82	51.7	137.12	59.42
640		2.62	188.81	51.5	137.31	59.50
645		44.88	188.79	51.5	137.29	59.49
650		0.00	188.78	51.4	137.38	59.53
655		10.51	188.76	51.3	137.46	59.57
660		9.51	188.74	51.0	137.74	59.69
700		16.90	189.40	52.5	136.90	59.32
705		7.44	189.23	52.2	137.03	59.38
710		9.20	188.97	51.7	137.27	59.49
715		7.60	188.92	51.4	137.52	59.59
720		20.59	188.84	51.2	137.64	59.64
725		11.03	188.79	50.8	137.99	59.80
730		18.21	188.73	50.6	138.13	59.85
735		20.49	188.70	50.4	138.30	59.93
740		18.94	188.68	50.2	138.48	60.01
745		9.51	188.67	50.2	138.47	60.00
750		0.00	188.66	49.8	138.86	60.17
800		7.41	190.70	60.5	130.20	56.42
810		13.65	190.59	61.8	128.79	55.81
820		7.86	190.53	63.0	127.53	55.26
830		7.86	190.50	63.4	127.10	55.08
840		4.59	190.44	63.6	126.84	54.96
850		0.00	190.31	63.0	127.31	55.17
860		7.47	190.45	63.6	126.85	54.97
870		2.62	190.72	60.7	130.02	56.34
880		7.00	190.90	60.0	130.90	56.72





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		7.00	191.11	59.7	131.41	56.94
900		8.20	190.20	59.0	131.20	56.85
910		26.93	190.20	59.8	130.40	56.51
920		19.94	190.16	60.3	129.86	56.27
935		2.93	190.13	61.7	128.43	55.65
940		2.93	190.11	62.0	128.11	55.52
950		6.24	190.10	62.5	127.60	55.29
960		6.76	190.07	63.0	127.07	55.06
970		9.62	190.07	63.5	126.57	54.85
980		2.88	190.07	63.5	126.57	54.85
1000		16.22	191.92	63.0	128.92	55.87
1010		17.19	191.95	62.0	129.95	56.31
1015		7.94	192.30	61.6	130.70	56.64
1030		2.62	192.00	64.2	127.80	55.38
1040		9.22	191.96	64.0	127.96	55.45
1050		8.91	191.93	63.0	128.93	55.87
1060		11.08	191.93	62.9	129.03	55.91
1070		11.66	192.02	62.4	129.62	56.17
1080		10.64	192.32	62.0	130.32	56.47
1090		7.94	192.31	62.0	130.31	56.47
1100		5.08	191.93	63.0	128.93	55.87
1110		7.34	191.94	62.6	129.34	56.05
1150		9.56	191.92	64.2	127.72	55.34
1155		7.15	191.91	63.8	128.11	55.52
1160		9.25	191.91	63.5	128.41	55.65
1170		5.08	191.90	64.3	127.60	55.29
1175		2.70	191.90	64.0	127.90	55.42
1180		2.70	191.90	63.8	128.10	55.51
1185		4.77	191.91	63.6	128.31	55.60
1200		9.30	191.92	63.0	128.92	55.87
1205		7.13	191.91	63.6	128.31	55.60
1210		9.90	191.94	62.8	129.14	55.96
1220		7.73	191.91	63.8	128.11	55.51
1225		5.03	191.91	63.5	128.41	55.64
1240		5.37	191.90	64.3	127.60	55.29
1245		5.37	191.90	64.0	127.90	55.42
1250		5.37	191.90	63.8	128.10	55.51
1255		5.37	191.90	63.6	128.30	55.60
1260		4.59	191.90	63.5	128.40	55.64
1265		6.34	191.90	63.4	128.50	55.68
1270		6.34	191.90	63.3	128.60	55.73
1275		20.51	192.23	63.5	128.73	55.78
1300		12.18	191.67	62.3	129.37	56.06



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		16.61	191.82	61.5	130.32	56.47
1310		0.00	191.65	62.0	129.65	56.18
1315		9.96	191.61	63.0	128.61	55.73
1320		14.38	191.61	61.2	130.41	56.51
1325		4.98	191.42	61.1	130.32	56.47
1330		8.36	191.43	61.0	130.43	56.52
1335		16.45	191.48	60.9	130.58	56.58
1350		9.54	191.62	60.8	130.82	56.69
1360		89.08	189.18	60.8	128.38	55.63
1365		89.08	188.43	61.2	127.23	55.13
1370		89.08	188.81	60.6	128.21	55.56
1400		9.69	191.26	60.2	131.06	56.79
1403		7.47	191.16	59.8	131.36	56.92
1405		10.09	191.36	60.7	130.66	56.62
1420		5.24	191.28	59.8	131.48	56.97
1425		8.38	191.31	59.5	131.81	57.12
1430		5.50	191.33	59.2	132.13	57.26
1435		15.20	191.42	60.0	131.42	56.95
1440		7.34	191.44	60.0	131.44	56.96
1445		4.98	191.27	59.4	131.87	57.15
1450		3.67	191.31	59.1	132.21	57.29
1455		5.24	191.18	59.0	132.18	57.28
1460		7.60	191.21	59.0	132.21	57.29
1465		3.67	191.24	58.7	132.54	57.43
1470		4.98	191.16	58.5	132.66	57.49
1475		0.00	191.22	58.0	133.22	57.73
1540		18.73	191.34	58.8	132.54	57.44
1600		4.79	190.80	59.2	131.60	57.03
1605		9.51	190.76	58.3	132.46	57.40
1610		5.00	190.59	57.2	133.39	57.80
1615		4.72	190.66	57.4	133.26	57.75
1620		0.00	190.61	56.8	133.81	57.98
1625		12.05	190.67	56.8	133.87	58.01
1630		12.05	190.83	57.5	133.33	57.78
1635		8.46	191.05	58.2	132.85	57.57
1640		3.93	190.61	56.5	134.11	58.12
1645		7.34	190.69	56.8	133.89	58.02
1647		3.77	190.82	56.8	134.02	58.07
1650		7.34	190.88	57.2	133.68	57.93
1653		3.69	191.05	57.5	133.55	57.87
1655		3.67	191.10	57.8	133.30	57.76
1700		16.45	190.16	56.0	134.16	58.14
1702		32.51	190.28	56.3	133.98	58.06



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		7.89	190.52	56.0	134.52	58.29
1750		19.39	189.82	56.0	133.82	57.99
1755		19.60	189.83	54.7	135.13	58.56
1770		6.60	189.67	55.4	134.27	58.19
1775		11.53	189.65	54.3	135.35	58.65
1780		9.51	189.66	54.0	135.66	58.79
1790		2.10	189.67	55.0	134.67	58.36
1800		25.15	189.57	53.8	135.77	58.83
1805		24.68	189.63	53.4	136.23	59.03
1880		0.71	189.31	55.0	134.31	58.20
1900		15.20	189.07	53.6	135.47	58.70
1905		7.15	188.95	53.0	135.95	58.91
1910		8.25	188.86	52.5	136.36	59.09
1915		6.29	188.82	51.8	137.02	59.38
1920		11.61	188.77	51.5	137.27	59.48
1925		6.16	188.76	51.5	137.26	59.48
1930		5.45	188.76	51.5	137.26	59.48
1935		12.39	189.38	53.0	136.38	59.10
1940		20.04	189.18	52.8	136.38	59.10
1945		6.03	189.07	52.8	136.27	59.05
1950		12.97	188.94	52.5	136.44	59.12
1955		16.11	188.86	52.0	136.86	59.30
1960		13.49	188.81	51.5	137.31	59.50
1965		19.47	188.76	51.3	137.46	59.57
1970		15.96	188.76	51.2	137.56	59.61
1975		9.01	189.39	52.7	136.69	59.23
1980		14.72	189.18	52.4	136.78	59.27
1982		2.31	188.97	52.2	136.77	59.27
1985		5.50	188.97	52.2	136.77	59.27
1990		10.72	188.93	52.0	136.93	59.34
1995		13.23	188.85	51.5	137.35	59.52
2000		6.86	188.81	51.0	137.81	59.72
2005		9.51	188.73	51.0	137.73	59.68
2010		9.51	188.71	51.0	137.71	59.68
2015		9.51	188.70	51.0	137.70	59.67
2020		9.51	188.69	51.0	137.69	59.66
2200		0.00	193.75	67.5	126.25	54.71
2210		0.00	193.10	67.5	125.60	54.42
2220		0.00	192.77	67.5	125.27	54.28
2230		0.00	192.39	67.5	124.89	54.12
2300		5.11	192.75	67.5	125.25	54.28
2310		3.54	192.75	67.5	125.25	54.28
2320		1.57	192.75	67.5	125.25	54.28



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		5.11	192.75	67.5	125.25	54.27
2340		3.54	192.75	67.4	125.40	54.34
2350		1.57	192.75	67.5	125.25	54.27
2360		7.73	192.74	67.5	125.24	54.27
2370		3.54	192.74	67.5	125.24	54.27
2380		1.57	192.74	67.0	125.74	54.49
2400		0.00	194.45	65.0	129.45	56.10
2410		0.00	194.59	65.0	129.59	56.15
2420		0.00	194.71	65.5	129.21	55.99
2430		7.86	194.71	65.5	129.21	55.99
2440		7.86	194.78	66.0	128.78	55.81
2450		7.86	194.78	66.0	128.78	55.80
2460		7.86	194.78	66.0	128.78	55.80
2470		7.86	194.78	66.0	128.78	55.80
3000		8.72	191.38	62.7	128.68	55.76
3005		5.97	191.37	63.0	128.37	55.63
3010		10.09	191.36	63.8	127.56	55.28
3015		6.21	191.36	64.1	127.26	55.15
3020		8.83	191.36	65.1	126.26	54.71
3025		2.62	191.39	66.0	125.39	54.33
3030		9.46	191.81	66.2	125.61	54.43
3035		0.00	192.00	66.6	125.40	54.34
3040		0.00	192.17	66.8	125.37	54.33
3045		4.45	192.04	67.0	125.04	54.18
3050		0.00	191.99	67.3	124.69	54.03
3055	23RD & OCO	9.43	191.95	67.5	124.45	53.93
3060		7.05	191.93	68.0	123.93	53.70
3065		3.93	191.33	66.6	124.73	54.05
3070		10.48	191.29	66.5	124.79	54.08
3075		5.24	191.24	67.0	124.24	53.84
3080		0.00	191.22	67.0	124.22	53.83
3100		0.00	191.47	63.0	128.47	55.67
3105		0.42	191.47	63.0	128.47	55.67
3110		2.10	191.53	63.5	128.03	55.48
3115		3.14	191.59	64.0	127.59	55.29
3130		13.76	191.63	64.5	127.13	55.09
3140		7.60	191.58	65.1	126.48	54.81
3145		7.60	191.56	65.3	126.26	54.71
3147		7.86	191.56	65.5	126.06	54.63
3150		13.76	191.57	65.5	126.07	54.63
3200		5.45	191.52	66.0	125.52	54.39
3205		13.94	191.52	66.4	125.12	54.22
3210		0.00	191.52	66.5	125.02	54.18





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		11.40	191.52	67.0	124.52	53.96
3220		3.12	191.52	67.2	124.32	53.87
3225		9.90	191.53	65.9	125.63	54.44
3230		15.14	191.52	66.3	125.22	54.26
3235		11.40	191.52	66.8	124.72	54.05
3240		3.12	191.52	67.0	124.52	53.96
3245		8.36	191.53	65.0	126.53	54.83
3247		5.19	191.53	65.3	126.23	54.70
3250		14.93	191.53	65.9	125.63	54.44
3252		13.47	191.53	66.1	125.43	54.35
3255		12.42	191.59	66.6	124.99	54.16
3257		11.40	191.54	66.7	124.84	54.10
3259		3.12	191.54	66.9	124.64	54.01
3260		8.59	191.37	63.5	127.87	55.41
3262		2.31	191.37	63.4	127.97	55.45
3265		8.59	191.40	64.2	127.20	55.12
3267		2.31	191.40	64.1	127.30	55.16
3270		8.38	191.49	64.4	127.09	55.07
3275		8.59	191.48	64.6	126.88	54.98
3277		2.31	191.48	64.5	126.98	55.02
3280		6.29	191.48	65.5	125.98	54.59
3285		6.29	191.45	65.1	126.35	54.75
3290		22.11	191.39	64.8	126.59	54.86
3295		17.03	191.37	64.3	127.07	55.06
3300		10.74	191.37	65.9	125.47	54.37
3305		7.00	191.40	66.2	125.20	54.25
3310		3.41	191.40	66.3	125.10	54.21
3315		7.00	191.45	66.3	125.15	54.23
3320		3.41	191.45	66.4	125.05	54.19
3325		7.00	191.50	66.4	125.10	54.21
3330		3.41	191.50	66.5	125.00	54.17
3400		4.59	191.17	64.9	126.27	54.72
3405		2.62	191.17	65.0	126.17	54.68
3410		6.55	191.02	64.4	126.62	54.87
3415		2.62	191.02	64.5	126.52	54.82
3420		4.59	190.82	63.9	126.92	55.00
3425		2.62	190.82	64.0	126.82	54.95
3430		4.59	190.65	63.7	126.95	55.01
3435		2.62	190.65	63.8	126.85	54.97
3440		7.86	190.58	63.1	127.48	55.24
3450		13.65	190.73	62.2	128.53	55.69
3460		7.41	190.87	61.0	129.87	56.28
3470		7.41	191.01	61.3	129.71	56.21



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

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JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		13.65	190.95	62.5	128.45	55.66
3490		7.55	190.99	63.5	127.49	55.25
3500		8.86	191.03	64.0	127.03	55.04
3510		8.59	191.07	63.0	128.07	55.50
3520		11.48	191.18	62.0	129.18	55.98
3530		10.74	191.19	62.3	128.89	55.85
3540		14.75	191.14	63.3	127.84	55.40
3550		7.86	191.05	64.2	126.85	54.97
3600		8.20	190.58	60.2	130.38	56.50
3605		10.48	190.52	61.1	129.42	56.08
3610		8.20	190.45	59.9	130.55	56.57
3615		8.20	190.43	60.6	129.83	56.26
3620		8.20	190.35	59.5	130.85	56.70
3625		8.20	190.32	60.1	130.22	56.43
3630		8.20	189.96	58.7	131.26	56.88
3635		20.02	189.93	59.3	130.63	56.61
3640		0.00	189.91	58.3	131.61	57.03
3643		0.00	189.90	58.9	131.00	56.76
3645		2.99	189.89	59.0	130.89	56.72
3650		3.38	189.73	56.3	133.43	57.82
3660		0.00	189.90	58.3	131.60	57.02
3665		18.81	189.76	58.5	131.26	56.88
3670		0.00	189.90	58.3	131.60	57.02
3675		0.00	189.71	58.3	131.41	56.95
3680		0.00	189.90	58.0	131.90	57.15
3685		5.79	189.81	60.0	129.81	56.25
3690		0.00	189.90	57.8	132.10	57.24
3695		14.86	189.75	59.7	130.05	56.35
3697		14.70	189.75	59.2	130.55	56.57
3698		0.00	189.71	59.2	130.51	56.56
4000		11.69	191.88	67.2	124.68	54.03
4010		10.03	191.69	67.0	124.69	54.03
4020		10.03	191.56	67.0	124.56	53.98
4030		12.05	191.66	67.3	124.36	53.89
4040		6.92	191.79	67.3	124.49	53.94
4050		5.00	191.88	67.3	124.58	53.99
4060		7.78	191.88	67.4	124.48	53.94
4070		14.44	191.89	67.2	124.69	54.03
4080		5.24	191.92	67.2	124.72	54.04
4100		5.24	191.05	66.5	124.55	53.97
4105		12.24	191.06	66.1	124.96	54.15
4110		7.00	191.08	66.0	125.08	54.20
4115		5.24	190.87	66.0	124.87	54.11



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		12.24	190.87	65.8	125.07	54.20
4125		7.00	190.88	65.0	125.88	54.55
4130		2.62	190.68	65.8	124.88	54.12
4135		9.69	190.69	65.5	125.19	54.25
4140		6.29	190.69	65.3	125.39	54.34
4145		6.29	190.71	65.0	125.71	54.47
4150		3.67	190.69	65.0	125.69	54.47
4155		3.67	190.71	64.6	126.11	54.65
4200		5.84	190.32	63.8	126.52	54.83
4205		5.84	190.22	63.2	127.02	55.04
4210		5.84	190.16	61.9	128.26	55.58
4220		7.47	190.44	64.0	126.44	54.79
4225		19.39	190.43	64.3	126.13	54.66
4230		5.84	190.32	63.5	126.82	54.95
4235		12.47	190.32	63.8	126.52	54.82
4240		5.84	190.22	63.0	127.22	55.13
4245		12.47	190.22	63.5	126.72	54.91
4250		5.84	190.15	62.7	127.45	55.23
4255		12.44	190.15	63.0	127.15	55.10
4260		7.47	190.43	64.5	125.93	54.57
4265		10.35	190.43	64.8	125.63	54.44
4266		0.00	190.53	65.0	125.53	54.40
4267		2.88	190.43	65.0	125.43	54.35
4270		6.63	190.31	64.0	126.31	54.74
4275		9.51	190.31	64.3	126.01	54.61
4278		2.88	190.31	64.6	125.71	54.48
4280		6.63	190.22	63.6	126.62	54.87
4285		6.63	190.22	63.6	126.62	54.87
4290		6.60	190.14	62.5	127.64	55.31
4295		6.60	190.14	62.5	127.64	55.31
4300		6.94	189.96	62.0	127.96	55.45
4310		6.94	189.87	61.3	128.57	55.71
4320		6.94	189.80	60.5	129.30	56.03
4330		6.94	189.74	60.3	129.44	56.09
4340		9.82	189.96	62.3	127.66	55.32
4350		9.82	189.87	61.6	128.27	55.58
4360		6.94	189.80	61.2	128.60	55.73
4370		6.94	189.74	60.6	129.14	55.96
4380		2.88	189.96	62.5	127.46	55.23
4390		2.88	189.87	61.9	127.97	55.45
4400		4.85	189.70	60.0	129.70	56.20
4410		9.82	189.72	60.0	129.72	56.21
4420		4.98	189.75	60.0	129.75	56.22





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		3.93	189.75	60.0	129.75	56.22
4500		16.58	189.65	57.0	132.65	57.48
4510		28.51	189.66	58.0	131.66	57.05
4520		51.93	189.67	59.0	130.67	56.62
4530		7.47	189.68	59.4	130.28	56.45
4540		4.09	189.68	60.3	129.38	56.07
4550		8.93	189.69	60.5	129.19	55.98
4560		4.09	189.69	60.8	128.89	55.85
4570		2.31	189.69	60.0	129.69	56.20
4580	MAIN BTW L	2.31	189.69	60.0	129.69	56.20
4590		2.31	189.69	61.4	128.29	55.59
4600		10.74	189.40	56.3	133.10	57.68
4610		0.00	189.44	57.0	132.44	57.39
4620		0.00	189.48	58.2	131.28	56.89
4700		2.20	189.11	55.2	133.91	58.03
4710		21.22	189.11	55.8	133.31	57.77
4720		18.92	189.15	56.3	132.85	57.57
4730		0.00	189.17	56.8	132.37	57.36
4740		19.68	189.23	57.0	132.23	57.30
4750		5.24	189.26	57.0	132.26	57.31
4800		46.92	188.88	53.2	135.68	58.80
4810		9.82	188.98	54.2	134.78	58.41
4820		0.00	189.07	54.6	134.47	58.27
4830		0.00	189.15	55.2	133.95	58.04
4840		0.00	189.18	56.5	132.68	57.50
4850		0.21	188.98	55.3	133.68	57.93
4870		55.28	188.71	55.0	133.71	57.94
4880		0.00	189.16	56.0	133.16	57.70
4900		38.54	188.84	51.8	137.04	59.38
4910		5.82	188.83	51.7	137.13	59.42
4920		0.00	188.83	51.6	137.23	59.47
4930		0.84	188.81	51.5	137.31	59.50
4940		46.37	188.81	51.3	137.51	59.59
4947		12.31	188.81	51.6	137.21	59.46
4950		1.31	188.83	51.8	137.03	59.38
4955		12.31	188.84	51.9	136.94	59.34
4960		1.31	188.84	52.7	136.14	58.99
4965		3.93	188.84	52.7	136.14	58.99
4970		0.00	188.84	53.7	135.14	58.56
4975		15.46	188.85	54.0	134.85	58.43
4977		5.76	188.85	52.6	136.25	59.04
4980		5.76	188.86	52.3	136.56	59.18
4985		5.76	188.88	52.7	136.18	59.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	26.30	188.91	53.0	135.91	58.90
4995		0.00	188.86	52.1	136.76	59.26
5000		12.60	190.13	61.7	128.43	55.65
5010		0.00	189.97	61.0	128.97	55.89
5020		0.00	189.82	60.3	129.52	56.12
5030		6.68	189.68	59.8	129.88	56.28
5040		0.00	189.52	58.8	130.72	56.64
5050		0.00	189.34	58.2	131.14	56.83
5060		0.00	189.23	57.4	131.83	57.13
5070		0.00	189.09	55.7	133.39	57.80
5080		0.00	188.98	54.5	134.48	58.28
5090		0.00	188.95	52.2	136.75	59.26
5100		0.00	188.84	53.5	135.34	58.65
5110		6.39	188.84	53.5	135.34	58.65
5120		8.91	188.85	54.0	134.85	58.43
5130		8.91	188.85	55.9	132.95	57.61
5140		14.15	188.85	55.0	133.85	58.00
5150		5.76	188.88	54.5	134.38	58.23
5160		7.91	188.85	54.1	134.75	58.39
5170		5.76	188.86	53.0	135.86	58.87
5180		6.55	188.84	53.0	135.84	58.86
5190		5.24	188.81	51.7	137.11	59.41
5200		4.27	188.86	52.1	136.76	59.26
5205		4.27	188.86	51.8	137.06	59.39
5210		8.57	188.86	51.6	137.26	59.48
5215		4.27	188.87	51.4	137.47	59.57
5220		4.27	188.88	51.1	137.78	59.70
5230		4.53	188.88	51.3	137.58	59.62
5235		52.79	188.89	51.9	136.99	59.36
5240		3.22	188.86	52.3	136.56	59.18
5250		6.55	188.86	51.9	136.96	59.35
5255		6.42	188.86	51.8	137.06	59.39
5260		12.84	188.86	51.4	137.46	59.57
5265		6.42	188.88	51.0	137.88	59.75
5270		1.21	188.84	51.3	137.54	59.60
5277		0.00	188.84	51.5	137.34	59.52
5279		14.07	188.81	51.0	137.81	59.72
5280		45.80	188.81	51.0	137.81	59.72
5290		0.00	188.83	50.1	138.73	60.12
5292		0.00	188.88	50.8	138.08	59.83
5295		3.12	188.85	50.1	138.75	60.13
5297		0.00	188.88	52.8	136.08	58.97
5500		4.09	189.66	60.0	129.66	56.18



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		4.09	189.67	60.3	129.37	56.06
5520		4.09	189.67	60.6	129.07	55.93
5530		4.09	189.63	58.7	130.93	56.74
5540		4.09	189.66	59.0	130.66	56.62
5550		4.09	189.66	59.0	130.66	56.62
6000		0.00	188.92	52.2	136.72	59.25
7000		7.86	193.18	62.0	131.18	56.84
7005		7.86	193.03	61.4	131.63	57.04
7010		22.19	192.89	60.8	132.09	57.24
7015		15.72	192.67	60.3	132.37	57.36
7020		11.71	192.53	59.5	133.03	57.65
7025		4.98	192.41	62.3	130.11	56.38
7030		11.74	192.37	62.0	130.37	56.49
7035		19.75	192.03	60.5	131.53	57.00
7040	AURORA BTW	0.84	191.84	59.0	132.84	57.56
7045		0.00	191.62	58.5	133.12	57.69
7050		9.27	191.52	57.8	133.72	57.95
7055		9.27	191.44	57.5	133.94	58.04
7060		0.00	191.25	56.0	135.25	58.61
7070		0.00	191.21	57.0	134.21	58.16
7080		1.70	191.07	57.5	133.57	57.88
7100		8.38	193.10	63.0	130.10	56.37
7110		6.29	192.74	61.0	131.74	57.09
7120		9.96	192.67	60.5	132.17	57.28
7130		10.48	192.63	59.5	133.13	57.69
7140		6.29	192.71	62.0	130.71	56.64
7150		9.96	192.67	60.8	131.87	57.15
7160		10.48	192.66	59.1	133.56	57.88
7200		6.65	192.67	62.5	130.17	56.41
7210		6.21	192.75	62.5	130.25	56.44
7300		1.76	192.54	62.0	130.54	56.57
7310		5.24	192.92	62.0	130.92	56.73
7320		5.24	192.89	61.6	131.29	56.89
7330		4.38	192.70	62.0	130.70	56.64
7340		4.38	192.42	61.0	131.42	56.95
7350		5.24	192.32	60.2	132.12	57.25
7360		6.60	192.30	59.5	132.80	57.55
7370		5.24	192.04	60.4	131.64	57.04
7380		6.60	192.02	59.5	132.52	57.43
7390		1.60	191.67	60.0	131.67	57.06
7400		10.22	192.00	60.9	131.10	56.81
7405		10.22	191.85	62.0	129.85	56.27
7410		18.60	191.77	61.0	130.77	56.67



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		11.11	191.71	59.5	132.21	57.29
7420		12.84	191.68	60.2	131.48	56.97
7425		5.66	191.66	60.6	131.06	56.79
7430		10.22	191.65	60.7	130.95	56.75
7435		10.22	191.57	61.5	130.07	56.36
7440		16.93	191.54	61.0	130.54	56.57
7445		12.58	191.51	59.7	131.81	57.12
7450		7.70	191.65	59.5	132.15	57.26
7455		10.22	191.43	60.5	130.93	56.74
7460		10.22	191.37	61.2	130.17	56.41
7465		16.61	191.34	60.5	130.84	56.70
7470		12.52	191.32	59.5	131.82	57.12
7475		0.31	191.07	58.0	133.07	57.66
7480		11.66	191.30	60.3	131.00	56.77
7485		10.22	191.23	61.0	130.23	56.43
7490		21.09	191.20	60.0	131.20	56.85
7495		17.42	191.14	59.3	131.84	57.13
7500		9.17	191.07	57.9	133.17	57.71
7505		3.67	191.26	60.0	131.26	56.88
7510		7.34	191.15	60.0	131.15	56.83
7515		7.34	191.14	59.4	131.74	57.09
7520		7.34	191.08	58.4	132.68	57.50
7525		5.08	191.05	57.5	133.55	57.87
7530		3.67	191.09	59.0	132.09	57.24
7535		7.34	191.05	58.5	132.55	57.44
7540		7.34	191.01	57.8	133.21	57.72
7545		3.67	190.99	57.3	133.69	57.93
7550		7.34	191.26	59.2	132.06	57.23
7555		7.34	191.08	58.8	132.28	57.32
7560		7.34	191.01	58.3	132.71	57.51
7565		14.67	190.94	57.7	133.24	57.74
7570		14.67	190.89	57.1	133.79	57.97
7573		7.34	191.29	56.4	134.89	58.45
7575		7.34	190.88	56.4	134.48	58.27
7577		7.34	191.01	58.0	133.01	57.64
7580		0.00	191.45	58.2	133.25	57.74
7585		7.34	190.92	57.5	133.42	57.81
7590		13.89	190.89	56.9	133.99	58.06
7595		13.89	190.78	56.3	134.48	58.28
7600		6.94	190.76	55.6	135.16	58.57
7605		5.58	191.45	57.3	134.15	58.13
7610		6.55	190.81	56.6	134.21	58.16
7615		13.10	190.72	56.2	134.52	58.29





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		13.28	190.67	55.7	134.97	58.49
7625		6.73	190.64	55.1	135.54	58.74
7700		13.10	190.67	55.9	134.77	58.40
7705		12.50	190.53	55.0	135.53	58.73
7710		12.37	190.48	54.0	136.48	59.14
7715		6.55	190.49	53.8	136.69	59.23
7720		18.94	190.54	55.0	135.54	58.74
7725		13.96	190.39	54.1	136.29	59.06
7730		11.08	190.33	53.7	136.63	59.21
7735		5.71	190.32	53.5	136.82	59.29
7740		10.93	190.43	54.4	136.03	58.95
7745		10.64	190.36	53.7	136.66	59.22
7750		14.57	190.18	53.6	136.58	59.19
7755		11.40	190.10	53.5	136.60	59.19
7760		17.76	190.16	53.9	136.26	59.05
7765		19.02	190.03	53.6	136.43	59.12
7770		18.73	190.01	53.5	136.51	59.15
7775		8.25	190.01	53.2	136.81	59.29
7780		17.61	189.93	53.6	136.33	59.08
7785		20.28	189.83	53.5	136.33	59.08
7790		19.91	189.83	53.4	136.43	59.12
7795		7.07	189.76	53.0	136.76	59.26
7800		3.07	189.77	53.4	136.37	59.09
7805		1.05	189.85	53.4	136.45	59.13
7810		1.05	189.79	53.3	136.49	59.15
7815		1.31	189.78	53.3	136.48	59.14
7820		3.41	189.74	53.1	136.64	59.21
7825		2.10	189.68	50.8	138.88	60.18
7830		5.24	189.57	52.7	136.87	59.31
7835		1.70	189.60	52.8	136.80	59.28
7840		3.93	189.63	52.6	137.03	59.38
7845		3.01	189.64	52.2	137.44	59.56
7850		4.82	189.34	52.1	137.24	59.47
7855		2.72	189.33	52.2	137.13	59.42
7860		2.62	189.33	51.9	137.43	59.55
7865		2.62	189.48	52.0	137.48	59.57
7870		4.40	189.48	51.8	137.68	59.66
7875		49.78	189.05	52.0	137.05	59.39
7880		0.00	189.13	52.0	137.13	59.42
7885		49.78	188.96	52.0	136.96	59.35
7890		49.78	188.52	52.0	136.52	59.16
7895		1.31	188.73	52.0	136.73	59.25
7900		12.47	189.70	53.3	136.40	59.11



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		10.90	189.69	53.3	136.39	59.10
7910		10.40	189.69	53.2	136.49	59.14
7915		2.12	189.67	52.8	136.87	59.31
7917		0.00	189.67	52.5	137.17	59.44
7920		5.37	189.65	52.9	136.75	59.26
7925		5.24	189.65	53.0	136.65	59.22
7930		5.24	189.65	52.8	136.85	59.30
7935		3.93	189.65	52.4	137.25	59.48
7937		0.29	189.64	52.1	137.54	59.60
7940		11.27	189.46	52.5	136.96	59.35
7945		11.27	189.53	52.4	137.13	59.42
7950		8.65	189.61	52.3	137.31	59.50
7955		4.72	189.63	52.0	137.63	59.64
8000		7.39	188.77	51.7	137.07	59.40
8005		8.59	188.75	51.6	137.15	59.43
8010		7.07	188.75	51.4	137.35	59.52
8015		2.17	188.75	51.3	137.45	59.56
8020		7.39	188.78	51.5	137.28	59.49
8025		8.93	188.76	51.4	137.36	59.52
8030		11.40	188.75	51.3	137.45	59.56
8035		6.16	188.75	51.9	136.85	59.30
8040		13.68	188.79	51.2	137.59	59.62
8045	6TH & EUCL	13.68	188.78	51.2	137.58	59.62
8050		11.53	188.78	50.8	137.98	59.79
8055		4.72	188.79	50.0	138.79	60.14
8060		11.00	188.76	50.9	137.86	59.74
8065		7.86	188.59	50.8	137.79	59.71
8070		10.48	188.69	50.4	138.29	59.92
8075		8.80	188.75	50.6	138.15	59.87
8080		4.53	188.72	50.5	138.22	59.90
8085		4.53	188.72	50.5	138.22	59.89
8090		58.06	188.48	49.5	138.98	60.23
8095		9.69	188.48	48.4	140.08	60.70
8100		0.00	188.56	49.5	139.06	60.26
8105		6.34	188.51	49.0	139.51	60.45
8110		3.96	188.49	48.7	139.79	60.58
8115		3.96	188.49	48.4	140.09	60.71
8120		6.34	188.49	48.0	140.49	60.88
8125		1.31	188.49	48.0	140.49	60.88
8130		1.31	188.49	47.7	140.79	61.01
8135		2.83	188.49	48.8	139.69	60.53
8140		0.55	188.48	49.5	138.98	60.23
8145		16.82	188.49	48.7	139.79	60.57



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.52	188.83	49.5	139.33	60.38
8205		0.50	188.83	49.0	139.83	60.59
8210		0.00	188.83	48.5	140.33	60.81
8215		7.55	188.89	48.7	140.19	60.75
8220		12.05	189.02	47.9	141.12	61.15
8225		10.43	189.22	47.7	141.52	61.33
8230		12.05	188.90	48.0	140.90	61.06
8235		12.05	189.02	47.5	141.52	61.32
8240		12.05	189.19	47.2	141.99	61.53
8250		6.03	188.91	47.5	141.41	61.28
8255		6.03	188.94	47.2	141.74	61.42
8260		6.03	188.95	47.2	141.75	61.43
8265		9.96	189.18	46.8	142.38	61.70
8270		3.14	188.94	47.2	141.74	61.42
8275		3.14	188.94	47.0	141.94	61.51
8280		3.14	188.94	46.8	142.14	61.60
8285		4.85	188.94	46.8	142.14	61.60
8290		4.85	188.94	46.8	142.14	61.60
8295		0.86	188.95	47.0	141.95	61.51
8300		2.28	189.42	49.5	139.92	60.63
8310		0.00	189.35	48.4	140.95	61.08
8320		0.47	189.26	47.8	141.46	61.30
8330		0.00	189.38	48.1	141.28	61.22
8340		0.00	189.41	48.0	141.41	61.28
8350		2.62	189.41	48.0	141.41	61.28
8360		0.00	189.26	47.6	141.66	61.38
8370		0.00	189.26	47.5	141.76	61.43
8380		3.93	189.51	48.6	140.91	61.06
8400		4.35	190.08	53.3	136.78	59.27
8410		0.31	190.05	53.0	137.05	59.39
8420		0.00	190.05	53.0	137.05	59.39
8430		0.31	190.05	53.2	136.85	59.30
8440		0.58	190.05	53.0	137.05	59.39
8450		0.52	190.05	52.8	137.25	59.48
8460		0.68	190.05	52.7	137.35	59.52
8470		0.68	190.05	52.5	137.55	59.61
8500		0.65	189.90	53.1	136.80	59.28
8510		0.94	189.84	52.7	137.14	59.43
8515		0.00	189.84	52.7	137.14	59.43
8520		0.55	189.80	52.0	137.80	59.71
8525		4.03	189.80	52.4	137.40	59.54
8530		0.13	189.78	52.0	137.78	59.70
8540		1.81	189.76	51.8	137.96	59.78





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		13.55	189.72	51.0	138.72	60.11
8560		13.39	189.71	51.8	137.91	59.76
8600		3.90	189.81	53.0	136.81	59.28
8610		12.60	189.79	52.2	137.59	59.62
8620		4.27	189.78	52.0	137.78	59.70
8630		13.76	189.75	51.7	138.05	59.82
8640		0.92	189.73	51.7	138.03	59.81
8650		5.40	189.73	51.4	138.33	59.94
8660		0.63	189.72	51.3	138.42	59.98
8670		2.36	189.72	51.1	138.62	60.07
8680		3.93	189.72	50.9	138.82	60.16
8690		0.00	189.67	49.5	140.17	60.74
8700		4.40	190.10	53.5	136.60	59.19
8710		6.31	190.15	53.7	136.45	59.13
8720		2.78	190.19	53.5	136.69	59.23
8725		5.27	190.27	54.0	136.27	59.05
8730		3.22	190.27	53.6	136.67	59.22
8735		6.47	190.33	53.8	136.53	59.16
8740		4.59	190.34	54.8	135.54	58.73
8745		4.59	190.33	54.0	136.33	59.08
8750		4.53	190.34	54.0	136.34	59.08
8755		117.90	189.06	55.2	133.86	58.00
8760		5.76	190.70	55.6	135.10	58.54
8765		1.68	190.70	54.7	136.00	58.93
8770		1.31	190.70	57.0	133.70	57.94
8775		3.93	191.16	57.0	134.16	58.14
8800		0.52	189.91	53.5	136.41	59.11
8810		6.18	189.87	53.0	136.87	59.31
8820		7.34	189.87	53.2	136.67	59.22
8830		2.44	189.92	53.2	136.72	59.24
8840		0.84	190.05	53.7	136.35	59.08
8845		0.86	190.05	53.7	136.35	59.08
8850		1.10	190.28	54.3	135.98	58.93
8900		8.33	189.83	52.1	137.73	59.68
8910		15.09	189.85	52.5	137.35	59.52
8920		6.76	189.89	52.8	137.09	59.41
8930		4.19	189.94	53.1	136.84	59.30
8940		0.29	189.99	53.4	136.59	59.19
8950		0.26	190.06	53.7	136.36	59.09
8960		1.49	190.18	54.8	135.38	58.66
8970		1.05	190.53	55.2	135.33	58.64
8975		2.83	190.32	55.0	135.32	58.64
8980		34.48	190.88	55.6	135.28	58.62



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		2.31	189.68	48.8	140.88	61.05
9010		0.10	189.68	48.8	140.88	61.05
9020		0.00	189.68	48.8	140.88	61.05
9030		0.65	189.68	49.1	140.58	60.92
9040		0.00	189.68	49.3	140.38	60.83
9050		0.00	189.68	49.5	140.18	60.75
9060		5.37	189.69	49.7	139.99	60.66
9070		5.89	189.70	50.0	139.70	60.53
9080		5.89	189.71	50.9	138.81	60.15
9090		3.01	189.74	51.4	138.34	59.95
9100		6.58	189.75	51.5	138.25	59.91
9110		0.00	189.78	52.0	137.78	59.71
9115		2.62	189.78	52.5	137.28	59.49
9120		2.44	189.83	52.6	137.23	59.46
9130		2.44	189.89	53.4	136.49	59.15
9140		0.97	189.91	54.0	135.91	58.89
9150	ROSS & McC	5.24	189.92	54.0	135.92	58.90
9160		0.00	189.95	54.0	135.95	58.91
9170		0.00	189.97	54.0	135.97	58.92
9175		4.22	189.90	53.3	136.60	59.19
9180		0.00	190.06	54.2	135.86	58.87
9190		0.00	190.16	54.8	135.36	58.66
9200		4.64	191.46	56.2	135.26	58.61
9210		4.64	191.49	56.0	135.49	58.71
9220		4.03	191.53	57.0	134.53	58.30
9230		5.97	191.53	56.8	134.73	58.38
9240		2.20	191.51	56.5	135.01	58.51
9250		4.24	191.60	57.8	133.80	57.98
9260		6.18	191.59	57.5	134.09	58.10
9270		4.06	191.62	58.5	133.12	57.68
9280		5.42	191.61	58.3	133.31	57.77
9300		0.00	192.21	61.5	130.71	56.64
9310		0.00	192.11	61.0	131.11	56.82
9320		2.36	192.20	62.0	130.20	56.42
9330		12.47	192.03	61.5	130.53	56.56
9333		1.99	191.79	61.0	130.79	56.68
9337		2.91	191.72	61.0	130.72	56.64
9340		4.59	191.61	59.0	132.61	57.47
9345		2.99	191.62	59.0	132.62	57.47
9350		5.32	191.62	60.0	131.62	57.04
9355		4.24	191.62	59.6	132.02	57.21
9360		6.08	191.63	60.5	131.13	56.82
9365		1.18	191.62	59.4	132.22	57.30



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		3.85	191.65	60.5	131.15	56.83
9375		4.98	191.63	60.5	131.13	56.82
9380		4.48	191.64	60.8	130.84	56.70
9385		1.23	191.63	60.5	131.13	56.82
9390		5.21	191.63	60.6	131.03	56.78
9395		2.99	191.63	60.5	131.13	56.82
9400		9.59	194.17	65.0	129.17	55.98
9410		0.00	194.17	64.0	130.17	56.41
9415		1.31	194.17	65.0	129.17	55.97
9420		7.05	194.17	63.0	131.17	56.84
9425		1.31	194.17	65.0	129.17	55.97
9430		0.00	194.16	62.0	132.16	57.27
9440		18.86	194.16	62.0	132.16	57.27
9460		3.14	194.24	65.5	128.74	55.79
9470		2.44	194.30	65.5	128.80	55.81
9480		0.00	194.30	65.5	128.80	55.81
9490		5.66	194.16	62.0	132.16	57.27
9500		6.55	189.88	52.7	137.18	59.44
9505		2.36	189.86	52.2	137.66	59.65
9510		10.24	189.88	52.1	137.78	59.70
9513		0.00	189.88	51.8	138.08	59.83
9515		6.65	189.84	51.8	138.04	59.82
9520		11.61	189.79	51.5	138.29	59.93
9525		3.67	189.78	51.5	138.28	59.92
9530		11.19	189.75	51.2	138.55	60.04
9535		9.14	189.73	51.1	138.63	60.07
9540		10.43	189.69	50.8	138.89	60.19
9545		14.46	189.66	50.5	139.16	60.30
9550		0.00	189.68	51.0	138.68	60.10
9555		6.37	189.59	50.5	139.09	60.27
9560		12.73	189.64	50.0	139.64	60.51
9565		193.88	189.51	50.5	139.01	60.24
9570		0.00	189.58	50.3	139.28	60.35
9575		0.00	189.51	50.2	139.31	60.37
9580		0.18	189.70	49.5	140.20	60.76
9585		5.27	189.58	50.0	139.58	60.48
9590		3.46	189.63	49.8	139.83	60.59
9595		0.92	189.63	49.7	139.93	60.64
9600		0.00	189.85	52.0	137.85	59.73
9605		3.51	189.79	51.5	138.29	59.93
9610		2.20	189.75	51.4	138.35	59.95
9640		11.24	189.63	49.7	139.93	60.64
9650		5.69	189.63	49.4	140.23	60.77



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-4

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		3.14	189.63	49.2	140.43	60.85
9670		2.23	189.66	49.4	140.26	60.78
9673		0.00	189.66	49.5	140.16	60.74
9675		1.73	189.66	49.4	140.26	60.78
9680		11.37	189.66	49.7	139.96	60.65
9685		0.00	189.68	48.9	140.78	61.01
9687		0.00	189.68	48.8	140.88	61.05
9688		0.00	189.68	48.9	140.78	61.01
9700		1.13	189.94	53.6	136.34	59.08
9710		0.00	189.93	53.3	136.63	59.21
9720		3.80	189.91	53.3	136.61	59.20
9730		1.18	189.92	53.6	136.32	59.07
9740		0.00	189.84	52.3	137.54	59.60
9750		3.51	189.79	51.8	137.99	59.79
9760		9.56	189.75	51.5	138.25	59.91
9770		6.60	189.73	51.2	138.53	60.03
9780		14.54	189.66	50.6	139.06	60.26
9790		7.02	189.65	50.1	139.55	60.47
9800		1.99	191.74	60.5	131.24	56.87
9810		2.91	191.72	60.5	131.22	56.86
9820		5.24	191.68	60.0	131.68	57.06
9830		6.03	191.67	60.0	131.67	57.06
9840		5.24	191.66	60.0	131.66	57.05
9850		6.03	191.66	60.0	131.66	57.05
9860		5.24	191.63	58.5	133.13	57.69
9870		6.03	191.48	57.0	134.48	58.27
9880		6.03	191.46	56.5	134.96	58.48
9900		0.00	189.91	57.0	132.91	57.59
9910		0.00	189.91	58.0	131.91	57.16
9920		0.00	189.91	58.0	131.91	57.16
10000		9.82	190.79	56.4	134.39	58.24
10010	6TH & HAMI	13.10	190.69	56.0	134.69	58.37
10020		13.10	190.59	55.0	135.59	58.76
10030		11.69	190.51	55.6	134.91	58.46
10040		6.29	190.34	54.0	136.34	59.08
10050		8.49	190.27	53.7	136.57	59.18
10060		6.55	190.19	53.5	136.69	59.23
10070		0.00	190.08	53.4	136.68	59.23
10080		3.93	190.05	53.3	136.75	59.26
10090		0.24	189.96	53.3	136.66	59.22
10100		4.85	189.91	53.2	136.71	59.24
10110		4.95	189.88	53.0	136.88	59.31
10115		2.75	189.87	53.0	136.87	59.31





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		4.38	189.82	52.0	137.82	59.72
10130		4.61	189.79	51.6	138.19	59.88
10140		8.70	189.77	51.4	138.37	59.96
10150		0.00	189.75	51.0	138.75	60.13
10160		24.89	189.73	50.8	138.93	60.21
10170		5.16	189.72	50.5	139.22	60.33
10180		1.49	189.71	50.0	139.71	60.54
10185		18.37	189.70	50.0	139.70	60.54
10190		2.36	189.68	49.0	140.68	60.96
10195		0.00	189.67	49.2	140.47	60.87
10200	3 RD & COM	15.46	189.65	50.0	139.65	60.52
10210		19.73	189.64	51.5	138.14	59.86
14100		5.24	191.04	66.5	124.54	53.97
14110		7.86	191.03	66.7	124.33	53.88
14115		2.62	191.03	66.8	124.23	53.83
14120		5.24	190.86	66.3	124.56	53.98
14130		7.86	190.86	66.5	124.36	53.89
14135		2.62	190.86	66.7	124.16	53.80
14140		4.59	190.68	65.8	124.88	54.11
14150		3.28	190.70	66.0	124.70	54.04
14160		7.21	190.65	65.5	125.15	54.23
14170		7.21	190.61	65.7	124.91	54.13
20000		0.00	90.90	58.8	32.10	13.91
20010		0.00	90.81	58.8	32.01	13.87
20020		0.00	90.71	58.8	31.91	13.83
20100		0.00	90.57	62.5	28.07	12.16
20110		0.00	89.44	62.5	26.94	11.68
20120		0.00	202.15	62.5	139.65	60.51
20130		0.00	199.17	62.5	136.67	59.22
20140		0.00	197.77	62.5	135.27	58.62
20200		0.00	90.55	62.5	28.05	12.15
20210		0.00	89.41	62.5	26.91	11.66
20220		0.00	201.75	62.5	139.25	60.34
20230		0.00	198.74	62.5	136.24	59.04
20240		0.00	197.34	62.5	134.84	58.43
20300		0.00	90.55	62.5	28.05	12.15
20310		0.00	90.55	62.5	28.05	12.15
20320		0.00	197.04	62.5	134.54	58.30
20330		0.00	197.04	62.5	134.54	58.30
20340		0.00	197.04	62.5	134.54	58.30
20400		0.00	90.55	62.5	28.05	12.15
20410		0.00	90.55	62.5	28.05	12.15
20420		0.00	196.93	62.5	134.43	58.25



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
20430		0.00	196.93	62.5	134.43	58.25
20440		0.00	196.93	62.5	134.43	58.25
20500		0.00	196.36	67.2	129.16	55.97
21000		0.00	189.52	59.0	130.52	56.56
21010		0.00	189.52	59.0	130.52	56.56
21020		0.00	189.52	59.0	130.52	56.56
21040		0.00	100.00	60.0	40.00	17.33
21050		0.00	100.00	62.5	37.50	16.25
21100		0.00	100.00	63.3	36.70	15.90
21110		0.00	100.00	63.3	36.70	15.90
21120		0.00	189.52	63.3	126.22	54.69
21130		0.00	189.52	59.8	129.72	56.21
21200		0.00	100.00	63.3	36.70	15.90
21210		0.00	100.00	63.3	36.70	15.90
21220		0.00	189.52	63.3	126.22	54.69
21230		0.00	189.52	59.8	129.72	56.21
21300		0.00	100.00	63.3	36.70	15.90
21330		0.00	189.52	59.8	129.72	56.21
23000		0.45	188.91	50.0	138.91	60.20
23010		0.00	188.91	50.0	138.91	60.19
23020		0.00	188.91	47.0	141.91	61.49
23030		0.00	188.91	46.0	142.91	61.93
23040		1.31	188.91	45.0	143.91	62.36
23050		0.00	188.90	50.0	138.90	60.19
23060		0.00	188.89	49.0	139.89	60.62
23070		5.50	188.88	48.5	140.38	60.83
23100	BRADSHAW &	0.00	188.88	47.0	141.88	61.48
23110		44.54	188.85	48.0	140.85	61.04
23120		2.80	188.85	48.5	140.35	60.82
23200		0.00	188.88	49.0	139.88	60.61
23210		0.00	188.88	49.0	139.88	60.61
23220		0.00	188.88	47.5	141.38	61.27
23230		5.50	188.88	46.5	142.38	61.70
23240		6.55	188.88	46.0	142.88	61.92
23400		0.00	188.88	49.0	139.88	60.61
23410		0.00	188.88	49.0	139.88	60.62
23420		0.00	188.88	48.0	140.88	61.05
23500		0.00	188.89	47.0	141.89	61.48
23510		0.00	188.89	47.0	141.89	61.48
23520		0.00	188.88	47.0	141.88	61.48
23530		0.00	188.88	47.0	141.88	61.48
23540		0.00	188.88	46.5	142.38	61.70
23550		0.00	188.88	46.0	142.88	61.92



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
24000		269.86	181.74	76.0	105.74	45.82
40060		0.00	192.34			
40070		0.00	192.30			
40080		0.00	192.28			

## SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES

(-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
-----	-----
20000	7356.79
21400	0.00

NET SYSTEM INFLOW = 7356.79

NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 7356.65

\*\*\*\* CYBERNET SIMULATION COMPLETED \*\*\*\*

DATE: 10/04/1994

TIME: 9:13:01





## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 5 (Figure 5.7)

#### Existing Water Distribution System with Improvements for Peak Hour Demand of Maximum Demand Month

Total Demand	13,500 gpm	19.4 mgd
Number of Pumps Operating:		
Water Treatment Plant Pump Station	3	
Remote Pump Station	1	
Pump Operating Speed:		
Water Treatment Plant Pump Station	99%	
Remote Pump Station	75%	
Pump Discharge Rate:		
Pump 1 Water Treatment Plant PS	4,158 gpm	
Pump 2 Water Treatment Plant PS	4,168 gpm	
Pump 3 Water Treatment Plant PS	4,178 gpm	
Pump 1 Remote Pump Station	996 gpm	
Pump Discharge Head:		
Pump 1 Water Treatment Plant PS	133.0 ft	57.6 psi
Pump 2 Water Treatment Plant PS	132.8 ft	57.5 psi
Pump 3 Water Treatment Plant PS	135.2 ft	58.6 psi
Pump 1 Remote Pump Station	89.8 ft	38.9 psi
Hydraulic Grade Elevation:		
at Water Treatment Plant PS (El. 67 ft)	207.0 ft	60.7 psi
at Remote Pump Station (El. 60 ft)	190.8 ft	56.7 psi
at 3rd & Commercial (El. 50 ft)	189.4 ft	60.4 psi







# MAXIMUM DIMENSIONS

RUN-5

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	60011

Cybernet version 2.16c. SN: 1162130099-2000

## Extended Description:

### U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

### O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

### S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1280  
 NUMBER OF JUNCTION NODES .....(j) = 950  
 NUMBER OF PRIMARY LOOPS .....(l) = 329  
 NUMBER OF BOUNDARY NODES .....(f) = 2  
 NUMBER OF SUPPLY ZONES .....(z) = 1

### \*\*\*\*\* S I M U L A T I O N R E S U L T S \*\*\*\*\*

The results are obtained after 6 trials with an accuracy = 0.00252

### S I M U L A T I O N D E S C R I P T I O N

CyberNet Version 2.16c. Copyright 1991,92 Haestad Methods Inc.  
 Run Description: PEAK HOUR OF MAX MONTH FLOW = 13500 GPM 19.4 MG  
 Drawing: EC-PEAK3









## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5	10	5	-8478.54	0.42	0.00	0.00	3.85	2.49
10	10	15	7983.32	2.35	0.00	0.00	3.62	2.23
15	2420	15	-7790.77	0.58	0.00	0.00	3.54	2.13
17	2420	20	6972.04	1.61	0.00	0.00	3.16	1.73
20	20	30	6972.04	1.94	0.00	0.00	3.16	1.73
30	30	40	5015.94	0.55	0.00	0.00	2.28	0.94
40	40	50	5015.94	0.28	0.00	0.00	2.28	0.94
50	50	60	4556.00	1.38	0.00	0.00	3.23	2.34
60	60	70	4056.45	1.01	0.00	0.00	2.88	1.89
80	70	80	3806.59	1.49	0.00	0.00	2.70	1.68
90	80	90	3428.57	0.57	0.00	0.00	2.43	1.38
100	90	100	2621.94	0.28	0.00	0.00	1.86	0.84
205	5	210	1180.99	0.85	0.00	0.00	1.49	0.78
210	210	220	1139.38	1.00	0.00	0.00	1.44	0.73
220	220	230	1894.48	2.47	0.00	0.00	2.39	1.87
240	230	240	2117.64	2.22	0.00	0.00	2.67	2.30
250	240	250	2117.64	2.43	0.00	0.00	2.67	2.30
260	250	260	1891.93	1.67	0.00	0.00	2.39	1.86
270	260	270	1502.35	0.43	0.00	0.00	1.89	1.22
280	270	280	1418.04	0.25	0.00	0.00	1.79	1.09
290	280	300	1364.93	0.56	0.00	0.00	1.72	1.02
305	300	305	1217.78	0.52	0.00	0.00	1.54	0.82
310	305	310	1141.52	0.23	0.00	0.00	1.44	0.73
315	310	315	1079.33	0.21	0.00	0.00	1.36	0.66
320	315	320	-559.81	0.07	0.00	0.00	0.71	0.20
325	320	325	-521.60	0.16	0.00	0.00	0.66	0.17
330	325	330	-671.86	0.16	0.00	0.00	0.85	0.27
335	330	335	-789.13	0.06	0.00	0.00	0.99	0.37
340	335	90	-797.88	0.19	0.00	0.00	1.01	0.38
400	315	400	1505.76	0.41	0.00	0.00	1.90	1.22
405	400	405	643.87	0.39	0.00	0.00	1.83	1.82
410	405	410	551.28	0.38	0.00	0.00	1.56	1.37
415	410	415	486.70	0.22	0.00	0.00	1.38	1.09
420	415	420	496.06	0.41	0.00	0.00	1.41	1.13
425	420	425	556.44	0.46	0.00	0.00	1.58	1.39
430	425	430	508.17	0.24	0.00	0.00	1.44	1.18
435	430	435	501.01	0.22	0.00	0.00	1.42	1.15
440	435	440	442.94	0.33	0.00	0.00	1.26	0.91
445	440	445	344.33	0.13	0.00	0.00	0.98	0.57
450	445	450	317.68	0.08	0.00	0.00	0.90	0.49
455	450	455	507.39	0.45	0.00	0.00	1.44	1.17
457	455	457	100.94	0.02	0.00	0.00	0.29	0.06
459	457	459	86.38	0.03	0.00	0.00	0.25	0.04



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
460	460	459	-60.46	0.01	0.00	0.00	0.17	0.02
465	460	465	86.37	0.06	0.00	0.00	0.25	0.04
470	465	470	-376.95	0.13	0.00	0.00	1.07	0.68
475	470	475	-339.53	0.11	0.00	0.00	0.96	0.56
480	475	480	-336.12	0.10	0.00	0.00	0.95	0.55
485	480	485	-303.58	0.09	0.00	0.00	0.86	0.45
490	485	490	-539.30	0.49	0.00	0.00	1.53	1.31
495	490	495	-608.85	0.61	0.00	0.00	1.73	1.64
500	495	500	-634.55	0.61	0.00	0.00	1.80	1.78
505	500	505	-582.39	0.53	0.00	0.00	1.65	1.51
510	505	510	-642.18	0.67	0.00	0.00	1.82	1.82
515	510	100	-767.39	0.87	0.00	0.00	2.18	2.52
600	455	600	380.00	0.21	0.00	0.00	1.08	0.69
605	600	605	462.86	0.18	0.00	0.00	1.31	0.99
610	605	610	437.76	0.45	0.00	0.00	1.24	0.89
615	610	615	475.54	0.35	0.00	0.00	1.35	1.04
620	615	620	415.55	0.28	0.00	0.00	1.18	0.81
625	620	625	215.44	0.08	0.00	0.00	0.61	0.24
630	625	630	163.34	0.05	0.00	0.00	0.46	0.14
635	630	635	196.10	0.07	0.00	0.00	0.56	0.20
640	635	640	95.01	0.03	0.00	0.00	0.27	0.05
645	640	645	243.29	0.08	0.00	0.00	0.69	0.30
650	645	650	160.93	0.07	0.00	0.00	0.46	0.14
655	650	655	160.93	0.10	0.00	0.00	0.46	0.14
660	655	660	62.36	0.07	0.00	0.00	0.40	0.17
700	465	700	449.88	0.37	0.00	0.00	1.28	0.94
705	700	705	523.16	0.45	0.00	0.00	1.48	1.24
710	705	710	575.09	0.64	0.00	0.00	1.63	1.48
715	710	715	430.75	0.13	0.00	0.00	1.22	0.87
720	715	720	377.56	0.23	0.00	0.00	1.07	0.68
725	720	725	143.52	0.09	0.00	0.00	0.59	0.28
730	725	730	149.80	0.15	0.00	0.00	0.61	0.30
735	730	735	120.05	0.06	0.00	0.00	0.49	0.20
740	735	740	107.07	0.05	0.00	0.00	0.44	0.16
745	740	745	99.27	0.05	0.00	0.00	0.41	0.14
750	745	750	109.26	0.03	0.00	0.00	0.45	0.17
800	400	800	802.41	0.27	0.00	0.00	1.01	0.38
810	800	810	788.81	0.24	0.00	0.00	0.99	0.37
820	810	820	487.17	0.10	0.00	0.00	0.61	0.15
830	820	830	560.33	0.06	0.00	0.00	0.71	0.20
840	830	840	708.49	0.12	0.00	0.00	0.89	0.30
845	840	860	-243.50	0.02	0.00	0.00	0.69	0.30
850	840	850	943.57	0.25	0.00	0.00	1.19	0.51



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
P I P E L I N E R E S U L T S

RUN-5

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
860	850	5000	943.57	0.33	0.00	0.00	1.19	0.51
875	860	870	-461.01	0.59	0.00	0.00	1.31	0.98
880	870	880	-533.85	0.39	0.00	0.00	1.51	1.29
890	880	890	-598.46	0.47	0.00	0.00	1.70	1.59
895	890	3025	-675.11	0.64	0.00	0.00	1.92	1.99
900	420	900	-75.42	0.02	0.00	0.00	0.21	0.03
910	900	910	-90.47	0.03	0.00	0.00	0.26	0.05
920	910	920	58.64	0.01	0.00	0.00	0.17	0.02
930	920	5000	22.05	0.00	0.00	0.00	0.06	0.00
935	5000	935	66.86	0.00	0.00	0.00	0.19	0.03
940	935	940	116.41	0.03	0.00	0.00	0.33	0.08
950	940	950	111.02	0.03	0.00	0.00	0.31	0.07
960	950	960	177.76	0.05	0.00	0.00	0.50	0.17
970	960	970	42.84	0.01	0.00	0.00	0.12	0.01
980	970	980	5.29	0.00	0.00	0.00	0.02	0.00
1000	260	1000	5.86	0.00	0.00	0.00	0.04	0.00
1010	1000	1010	-29.91	0.04	0.00	0.00	0.19	0.04
1015	1010	1015	-269.50	0.90	0.00	0.00	1.72	2.62
1020	1015	50	-277.36	1.97	0.00	0.00	1.77	2.76
1030	260	1030	-65.54	0.16	0.00	0.00	0.42	0.19
1040	1030	1040	117.72	0.11	0.00	0.00	0.75	0.56
1050	1040	1050	45.68	0.09	0.00	0.00	0.29	0.10
1060	1050	1060	4.95	0.00	0.00	0.00	0.06	0.01
1070	1060	1070	-43.54	0.22	0.00	0.00	0.49	0.36
1080	1070	1080	-134.33	0.79	0.00	0.00	1.52	2.93
1090	1080	50	-175.12	1.93	0.00	0.00	1.99	4.78
1100	1015	1090	-6.71	0.01	0.00	0.00	0.08	0.01
1105	1090	1080	-21.27	0.04	0.00	0.00	0.24	0.10
1110	1000	1100	6.00	0.01	0.00	0.00	0.07	0.01
1115	1100	1110	-3.32	0.00	0.00	0.00	0.04	0.00
1120	1010	1110	58.22	0.05	0.00	0.00	0.37	0.15
1125	1110	1050	41.44	0.03	0.00	0.00	0.26	0.08
1150	1040	1150	55.12	0.15	0.00	0.00	0.63	0.56
1155	1150	1155	7.97	0.01	0.00	0.00	0.09	0.02
1160	1155	1160	-5.16	0.00	0.00	0.00	0.06	0.01
1165	1050	1160	65.82	0.06	0.00	0.00	0.42	0.19
1170	1150	1170	29.60	0.05	0.00	0.00	0.34	0.18
1175	1170	1175	10.42	0.01	0.00	0.00	0.12	0.03
1180	1175	1180	-4.39	0.00	0.00	0.00	0.05	0.01
1185	1180	1185	-19.20	0.02	0.00	0.00	0.22	0.08
1190	1160	1185	43.69	0.03	0.00	0.00	0.28	0.09
1195	1185	1205	5.88	0.00	0.00	0.00	0.04	0.00
1200	1060	1200	28.14	0.04	0.00	0.00	0.32	0.16





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1205	1200	1205	25.85	0.05	0.00	0.00	0.29	0.14
1210	1070	1210	69.40	0.23	0.00	0.00	0.79	0.86
1215	1210	1200	14.77	0.03	0.00	0.00	0.17	0.05
1220	1210	1220	36.45	0.08	0.00	0.00	0.41	0.26
1225	1220	1225	10.63	0.00	0.00	0.00	0.07	0.01
1230	1205	1225	10.24	0.00	0.00	0.00	0.07	0.01
1240	1170	1240	9.86	0.00	0.00	0.00	0.11	0.02
1245	1175	1245	9.86	0.00	0.00	0.00	0.11	0.02
1250	1180	1250	9.86	0.00	0.00	0.00	0.11	0.02
1255	1185	1255	9.86	0.00	0.00	0.00	0.11	0.02
1260	1205	1260	8.41	0.00	0.00	0.00	0.10	0.02
1265	1225	1265	11.64	0.01	0.00	0.00	0.13	0.03
1270	1220	1270	11.64	0.01	0.00	0.00	0.13	0.03
1275	1030	1275	-188.06	0.61	0.00	0.00	1.20	1.35
1280	1275	250	-225.71	0.90	0.00	0.00	1.44	1.89
1300	270	1300	44.64	0.22	0.00	0.00	0.51	0.38
1305	1300	1305	-45.65	0.35	0.00	0.00	0.52	0.40
1310	1300	1310	67.94	0.04	0.00	0.00	0.43	0.20
1315	1310	1315	121.05	0.10	0.00	0.00	0.77	0.59
1320	1315	1320	22.84	0.02	0.00	0.00	0.15	0.03
1325	1320	1305	-73.70	0.51	0.00	0.00	0.84	0.96
1327	300	1325	-47.70	0.01	0.00	0.00	0.14	0.01
1330	1315	1330	79.94	0.44	0.00	0.00	0.91	1.12
1335	1320	1335	70.15	0.33	0.00	0.00	0.80	0.88
1340	1325	1330	-114.45	0.02	0.00	0.00	0.32	0.07
1345	1330	1335	-49.85	0.08	0.00	0.00	0.32	0.12
1350	1335	1350	-121.44	0.36	0.00	0.00	0.78	0.60
1355	1350	70	-240.73	1.31	0.00	0.00	1.54	2.12
1360	60	1360	490.42	10.32	0.00	0.00	5.56	32.22
1365	1360	1365	163.47	2.29	0.00	0.00	1.85	4.21
1370	1360	1370	163.47	1.14	0.00	0.00	1.85	4.21
1375	1010	1305	149.83	0.34	0.00	0.00	0.96	0.88
1380	280	1310	53.12	0.01	0.00	0.00	0.15	0.02
1400	320	1403	-62.73	0.22	0.00	0.00	0.71	0.71
1404	1400	1403	62.35	0.23	0.00	0.00	0.71	0.71
1405	1400	1405	-66.78	0.25	0.00	0.00	0.76	0.80
1410	1405	1325	-57.62	0.19	0.00	0.00	0.65	0.61
1420	1400	1420	-13.36	0.02	0.00	0.00	0.15	0.04
1425	1420	1425	-29.34	0.07	0.00	0.00	0.33	0.17
1430	1425	1430	-20.67	0.06	0.00	0.00	0.23	0.09
1435	1405	1435	-27.67	0.15	0.00	0.00	0.31	0.16
1440	1435	1440	-17.60	0.04	0.00	0.00	0.20	0.07
1445	1420	1445	6.36	0.01	0.00	0.00	0.07	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1450	1445	1450	-25.77	0.08	0.00	0.00	0.29	0.14
1455	1403	1455	-14.08	0.03	0.00	0.00	0.16	0.04
1460	1455	1460	-29.13	0.06	0.00	0.00	0.33	0.17
1465	1460	1465	-25.12	0.08	0.00	0.00	0.29	0.13
1470	1455	1470	5.43	0.03	0.00	0.00	0.14	0.06
1475	1470	1475	-31.31	0.12	0.00	0.00	0.36	0.20
1480	325	1470	-82.18	0.05	0.00	0.00	0.52	0.29
1485	1470	1460	-54.58	0.09	0.00	0.00	0.62	0.55
1490	1460	1445	-72.52	0.16	0.00	0.00	0.82	0.93
1495	1445	1425	-49.53	0.08	0.00	0.00	0.56	0.46
1500	1425	1435	-73.58	0.30	0.00	0.00	0.83	0.96
1505	1435	1335	-111.54	0.14	0.00	0.00	0.71	0.51
1510	330	1475	-9.95	0.00	0.00	0.00	0.11	0.02
1515	1475	1465	-41.26	0.05	0.00	0.00	0.47	0.33
1520	1465	1450	-73.11	0.16	0.00	0.00	0.83	0.95
1525	1450	1430	-39.96	0.05	0.00	0.00	0.45	0.31
1530	1430	1440	-70.73	0.28	0.00	0.00	0.80	0.89
1535	1350	1440	101.79	0.46	0.00	0.00	1.15	1.75
1540	1450	1540	-65.66	0.07	0.00	0.00	0.42	0.19
1545	1540	80	-100.04	0.53	0.00	0.00	1.14	1.70
1600	400	1600	44.37	0.12	0.00	0.00	0.50	0.38
1605	1600	1605	35.58	0.20	0.00	0.00	0.40	0.25
1610	415	1610	-81.17	0.26	0.00	0.00	0.52	0.28
1615	1610	1615	-70.03	0.16	0.00	0.00	0.79	0.88
1620	1615	1605	-64.23	0.26	0.00	0.00	0.73	0.75
1622	1610	1620	-20.32	0.01	0.00	0.00	0.13	0.02
1624	1620	1625	-149.59	0.17	0.00	0.00	0.95	0.88
1625	1615	1625	-14.45	0.02	0.00	0.00	0.16	0.05
1627	1625	1630	-173.67	0.40	0.00	0.00	1.11	1.16
1630	1605	1630	-46.11	0.16	0.00	0.00	0.52	0.40
1635	1630	1635	-211.79	0.57	0.00	0.00	1.35	1.68
1637	1635	325	-198.55	0.24	0.00	0.00	1.27	1.49
1640	1620	1640	6.56	0.00	0.00	0.00	0.04	0.00
1645	1625	1645	-12.49	0.02	0.00	0.00	0.14	0.04
1650	1630	1650	-30.10	0.11	0.00	0.00	0.34	0.18
1655	1635	1655	-28.78	0.10	0.00	0.00	0.33	0.17
1660	1640	505	11.89	0.02	0.00	0.00	0.13	0.03
1665	1647	510	-31.17	0.14	0.00	0.00	0.35	0.20
1670	1653	100	-57.93	0.42	0.00	0.00	0.66	0.62
1675	1640	1645	-75.38	0.19	0.00	0.00	0.86	1.00
1680	1645	1647	-101.33	0.32	0.00	0.00	1.15	1.74
1685	1647	1650	-77.08	0.17	0.00	0.00	0.87	1.05
1690	1650	1653	-120.65	0.42	0.00	0.00	1.37	2.40



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1695	1653	1655	-69.50	0.14	0.00	0.00	0.79	0.86
1697	1655	330	-105.00	0.30	0.00	0.00	1.19	1.86
1700	425	1700	-8.54	0.02	0.00	0.00	0.10	0.02
1702	1620	1702	122.71	0.87	0.00	0.00	1.39	2.48
1705	1700	495	24.30	0.04	0.00	0.00	0.16	0.03
1710	1700	1702	-63.04	0.26	0.00	0.00	0.72	0.72
1715	1640	1705	62.84	0.25	0.00	0.00	0.71	0.72
1720	1705	500	48.37	0.30	0.00	0.00	0.55	0.44
1750	435	1750	44.56	0.25	0.00	0.00	0.51	0.38
1755	1750	1755	8.98	0.02	0.00	0.00	0.10	0.02
1760	1755	490	-26.98	0.10	0.00	0.00	0.31	0.15
1770	440	1770	85.63	0.22	0.00	0.00	0.55	0.31
1775	1770	1775	92.47	0.24	0.00	0.00	0.59	0.36
1780	1775	1780	-32.73	0.01	0.00	0.00	0.09	0.01
1785	1780	485	-246.07	0.11	0.00	0.00	0.70	0.31
1790	445	1790	22.80	0.08	0.00	0.00	0.26	0.11
1795	1790	1770	18.96	0.02	0.00	0.00	0.22	0.08
1800	460	1800	-202.24	0.08	0.00	0.00	0.57	0.21
1805	1800	1805	-144.35	0.10	0.00	0.00	0.41	0.11
1810	1805	475	6.24	0.00	0.00	0.00	0.02	0.00
1815	1805	1780	-195.89	0.08	0.00	0.00	0.56	0.20
1820	1800	1775	-104.04	0.17	0.00	0.00	0.66	0.45
1880	605	1880	1.30	0.00	0.00	0.00	0.01	0.00
1900	610	1900	50.20	0.31	0.00	0.00	0.57	0.47
1902	1900	1945	22.31	0.07	0.00	0.00	0.25	0.11
1905	615	1905	44.94	0.25	0.00	0.00	0.51	0.39
1907	1905	1950	31.82	0.14	0.00	0.00	0.36	0.20
1910	620	1910	41.60	0.20	0.00	0.00	0.47	0.33
1912	1910	1955	26.46	0.10	0.00	0.00	0.30	0.14
1915	625	1915	40.85	0.23	0.00	0.00	0.46	0.32
1917	1915	1960	29.31	0.11	0.00	0.00	0.33	0.17
1920	635	1920	97.73	0.24	0.00	0.00	0.62	0.40
1925	1920	1925	37.51	0.03	0.00	0.00	0.24	0.07
1927	1925	1965	26.21	0.01	0.00	0.00	0.17	0.03
1930	1920	1930	38.92	0.03	0.00	0.00	0.25	0.07
1932	1930	1970	28.92	0.02	0.00	0.00	0.18	0.04
1935	460	1935	176.31	0.45	0.00	0.00	1.13	1.19
1937	1935	1975	-38.94	0.01	0.00	0.00	0.11	0.01
1940	1935	1940	192.50	0.50	0.00	0.00	1.23	1.40
1942	1940	1980	4.55	0.00	0.00	0.00	0.05	0.01
1945	1940	1945	151.17	0.21	0.00	0.00	0.96	0.90
1950	1945	1950	162.42	0.35	0.00	0.00	1.04	1.03
1952	1950	1990	52.40	0.08	0.00	0.00	0.33	0.13





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1955	1950	1955	118.04	0.19	0.00	0.00	0.75	0.57
1957	1955	1995	25.72	0.08	0.00	0.00	0.29	0.14
1960	1955	1960	89.20	0.11	0.00	0.00	0.57	0.34
1962	1960	2000	38.93	0.04	0.00	0.00	0.25	0.07
1965	1960	1965	54.82	0.07	0.00	0.00	0.35	0.14
1967	1965	2005	37.76	0.17	0.00	0.00	0.43	0.28
1970	1965	1970	7.55	0.00	0.00	0.00	0.05	0.00
1972	1970	655	-34.88	0.01	0.00	0.00	0.22	0.06
1973	1970	2010	42.07	0.20	0.00	0.00	0.48	0.34
1975	1975	700	-55.48	0.01	0.00	0.00	0.16	0.02
1980	1980	705	-22.47	0.07	0.00	0.00	0.25	0.11
1982	1982	1985	-4.23	0.00	0.00	0.00	0.05	0.00
1985	1985	710	-58.23	0.01	0.00	0.00	0.17	0.02
1987	1985	1990	43.90	0.06	0.00	0.00	0.50	0.37
1990	1990	715	19.79	0.06	0.00	0.00	0.22	0.08
1992	1990	1995	56.85	0.20	0.00	0.00	0.65	0.60
1995	1995	720	25.17	0.09	0.00	0.00	0.29	0.13
1997	1995	2000	33.13	0.07	0.00	0.00	0.38	0.22
2000	2000	725	59.46	0.11	0.00	0.00	0.38	0.16
2005	2005	730	20.30	0.06	0.00	0.00	0.23	0.09
2010	2010	735	24.61	0.09	0.00	0.00	0.28	0.13
2012	655	2015	44.41	0.25	0.00	0.00	0.50	0.38
2015	2015	740	26.96	0.11	0.00	0.00	0.31	0.15
2017	660	2020	44.90	0.22	0.00	0.00	0.51	0.38
2020	2020	745	27.45	0.11	0.00	0.00	0.31	0.15
2200	230	2200	1908.19	1.50	0.00	0.00	2.41	1.89
2210	2200	2210	1908.19	1.70	0.00	0.00	2.41	1.89
2220	2210	2220	1908.19	0.85	0.00	0.00	2.41	1.89
2230	2220	2230	1847.13	0.98	0.00	0.00	2.33	1.78
2300	2220	2300	61.06	0.05	0.00	0.00	0.39	0.17
2310	2300	2310	6.49	0.00	0.00	0.00	0.04	0.00
2320	2300	2320	2.88	0.00	0.00	0.00	0.02	0.00
2330	2300	2330	42.31	0.03	0.00	0.00	0.27	0.08
2340	2330	2340	6.49	0.00	0.00	0.00	0.04	0.00
2350	2330	2350	2.88	0.00	0.00	0.00	0.02	0.00
2360	2330	2360	23.56	0.01	0.00	0.00	0.15	0.03
2370	2360	2370	6.49	0.00	0.00	0.00	0.04	0.00
2380	2360	2380	2.88	0.00	0.00	0.00	0.02	0.00
2400	9470	2400	-939.16	0.43	0.00	0.00	1.18	0.51
2410	2400	2410	-939.16	0.36	0.00	0.00	1.18	0.51
2420	2410	2420	-939.16	0.32	0.00	0.00	1.18	0.51
2430	2420	2430	-120.43	0.00	0.00	0.00	0.15	0.01
2440	2430	2440	-134.85	0.20	0.00	0.00	0.86	0.73





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
2445	2440	15	-192.55	0.37	0.00	0.00	1.23	1.41
2450	2440	2450	43.27	0.02	0.00	0.00	0.28	0.09
2460	2450	2460	14.42	0.00	0.00	0.00	0.09	0.01
2470	2450	2470	14.42	0.00	0.00	0.00	0.09	0.01
3000	300	3000	204.33	0.10	0.00	0.00	0.58	0.22
3005	3000	3005	97.62	0.01	0.00	0.00	0.28	0.06
3010	3005	3010	82.50	0.02	0.00	0.00	0.23	0.04
3015	3010	3015	-24.46	0.00	0.00	0.00	0.07	0.00
3017	3540	3010	-98.57	0.53	0.00	0.00	1.12	1.65
3020	3015	3020	-35.86	0.00	0.00	0.00	0.10	0.01
3025	3020	3025	-207.18	0.10	0.00	0.00	0.59	0.22
3030	3025	3030	-1106.33	1.06	0.00	0.00	3.14	4.97
3035	3030	3035	-1123.69	0.50	0.00	0.00	1.42	0.71
3040	3035	3040	-1123.69	0.42	0.00	0.00	1.42	0.71
3045	3040	3045	405.85	0.33	0.00	0.00	1.15	0.78
3050	3045	3050	247.61	0.14	0.00	0.00	0.70	0.31
3055	3050	3055	247.61	0.11	0.00	0.00	0.70	0.31
3060	3055	3060	156.03	0.04	0.00	0.00	0.44	0.13
3065	3025	3065	219.24	0.12	0.00	0.00	0.62	0.25
3070	3065	3070	212.03	0.10	0.00	0.00	0.60	0.23
3075	3070	3075	192.59	0.14	0.00	0.00	0.55	0.20
3080	3075	3080	182.98	0.05	0.00	0.00	0.52	0.18
3100	300	3100	-38.58	0.12	0.00	0.00	0.44	0.29
3105	3100	3105	0.77	0.00	0.00	0.00	0.01	0.00
3110	3100	3110	-39.35	0.16	0.00	0.00	0.45	0.30
3115	3110	3115	-43.19	0.14	0.00	0.00	0.49	0.36
3120	270	3115	178.19	0.42	0.00	0.00	1.14	1.22
3122	270	260	-152.95	0.43	0.00	0.00	0.98	0.92
3125	260	3130	197.07	0.82	0.00	0.00	1.26	1.47
3130	3115	3270	129.23	0.27	0.00	0.00	0.82	0.67
3140	3130	3140	73.34	0.13	0.00	0.00	0.47	0.24
3145	3140	3145	59.39	0.05	0.00	0.00	0.38	0.16
3147	3145	3147	14.42	0.00	0.00	0.00	0.09	0.01
3150	3130	3150	98.50	0.14	0.00	0.00	0.63	0.41
3152	3245	3150	-37.30	0.10	0.00	0.00	0.42	0.27
3155	3150	3145	35.95	0.04	0.00	0.00	0.23	0.06
3200	3200	3205	9.55	0.01	0.00	0.00	0.11	0.02
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	14.21	0.01	0.00	0.00	0.16	0.05
3210	3205	3215	-1.83	0.00	0.00	0.00	0.02	0.00
3215	3215	3220	5.72	0.00	0.00	0.00	0.06	0.01
3217	3235	3215	28.46	0.01	0.00	0.00	0.18	0.04
3220	3145	3225	66.98	0.07	0.00	0.00	0.43	0.20



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3225	3225	3230	29.25	0.02	0.00	0.00	0.19	0.04
3227	3225	3200	19.55	0.03	0.00	0.00	0.22	0.08
3230	3230	3235	1.22	0.00	0.00	0.00	0.01	0.00
3233	3252	3230	13.96	0.01	0.00	0.00	0.16	0.04
3235	3235	3240	5.72	0.00	0.00	0.00	0.06	0.01
3237	3257	3235	53.88	0.04	0.00	0.00	0.34	0.13
3245	3250	3245	-8.20	0.01	0.00	0.00	0.09	0.02
3247	3245	3247	13.77	0.01	0.00	0.00	0.16	0.04
3249	3247	3252	4.25	0.00	0.00	0.00	0.05	0.00
3250	3250	3255	-66.41	0.19	0.00	0.00	0.42	0.20
3251	3280	3250	-38.11	0.10	0.00	0.00	0.43	0.28
3252	3252	3257	-25.34	0.03	0.00	0.00	0.16	0.03
3254	3250	3252	9.08	0.01	0.00	0.00	0.10	0.02
3255	3255	3040	-317.59	1.58	0.00	0.00	2.03	3.55
3257	3255	3257	105.85	0.17	0.00	0.00	0.68	0.46
3259	3257	3259	5.72	0.00	0.00	0.00	0.04	0.00
3260	3005	3260	4.15	0.00	0.00	0.00	0.05	0.00
3262	3260	3262	4.23	0.00	0.00	0.00	0.05	0.00
3264	3260	3295	10.60	0.02	0.00	0.00	0.12	0.03
3265	3260	3265	-26.45	0.04	0.00	0.00	0.30	0.14
3267	3265	3267	4.23	0.00	0.00	0.00	0.05	0.00
3269	3265	3290	14.51	0.03	0.00	0.00	0.16	0.05
3270	3265	3270	-60.96	0.19	0.00	0.00	0.69	0.68
3273	3275	3280	4.82	0.00	0.00	0.00	0.05	0.01
3274	3270	3285	28.06	0.10	0.00	0.00	0.32	0.16
3275	3270	3275	24.82	0.04	0.00	0.00	0.28	0.13
3277	3275	3277	4.23	0.00	0.00	0.00	0.05	0.00
3280	3280	3285	31.40	0.06	0.00	0.00	0.36	0.20
3285	3285	3290	47.91	0.13	0.00	0.00	0.54	0.43
3290	3290	3295	21.85	0.03	0.00	0.00	0.25	0.10
3295	3295	3010	10.12	0.01	0.00	0.00	0.11	0.02
3297	3295	3300	-8.92	0.02	0.00	0.00	0.10	0.02
3300	3020	3300	-36.64	0.02	0.00	0.00	0.23	0.07
3305	3300	3305	-65.28	0.05	0.00	0.00	0.42	0.19
3310	3305	3310	6.25	0.00	0.00	0.00	0.04	0.00
3315	3305	3315	-84.36	0.10	0.00	0.00	0.54	0.30
3320	3315	3320	6.25	0.00	0.00	0.00	0.04	0.00
3325	3315	3325	-103.45	0.13	0.00	0.00	0.66	0.44
3330	3325	3330	6.25	0.00	0.00	0.00	0.04	0.00
3335	3255	3325	122.54	0.20	0.00	0.00	0.78	0.61
3400	3020	3400	191.76	0.45	0.00	0.00	1.22	1.39
3405	3400	3405	4.81	0.00	0.00	0.00	0.05	0.01
3410	3400	3410	178.54	0.37	0.00	0.00	1.14	1.22



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3415	3410	3415	4.81	0.00	0.00	0.00	0.05	0.01
3420	3410	3420	189.02	0.43	0.00	0.00	1.21	1.36
3425	3420	3425	4.81	0.00	0.00	0.00	0.05	0.01
3430	3420	3430	175.80	0.35	0.00	0.00	1.12	1.19
3435	3430	3435	4.81	0.00	0.00	0.00	0.05	0.01
3437	3430	830	162.58	0.30	0.00	0.00	1.04	1.03
3440	820	3440	-87.58	0.10	0.00	0.00	0.56	0.33
3445	810	3450	-72.40	0.28	0.00	0.00	0.82	0.93
3450	3440	3450	-102.01	0.29	0.00	0.00	0.65	0.43
3460	3460	3450	100.55	0.31	0.00	0.00	0.64	0.42
3467	3460	315	-114.15	0.33	0.00	0.00	0.73	0.53
3470	310	3470	44.49	0.23	0.00	0.00	0.50	0.38
3475	3450	3480	-98.91	0.49	0.00	0.00	1.12	1.66
3480	3470	3480	30.88	0.13	0.00	0.00	0.35	0.19
3490	3480	3490	-24.35	0.08	0.00	0.00	0.28	0.12
3500	3490	3500	-38.20	0.09	0.00	0.00	0.43	0.29
3505	3500	3410	27.31	0.01	0.00	0.00	0.17	0.04
3510	3500	3510	-54.79	0.09	0.00	0.00	0.35	0.14
3515	3480	3510	-68.72	0.26	0.00	0.00	0.78	0.85
3520	3510	3520	-83.88	0.26	0.00	0.00	0.54	0.30
3525	3520	305	-59.24	0.07	0.00	0.00	0.38	0.16
3530	3520	3530	-45.70	0.03	0.00	0.00	0.29	0.10
3535	3530	3000	-90.70	0.46	0.00	0.00	1.03	1.41
3540	3530	3540	25.30	0.11	0.00	0.00	0.29	0.13
3545	3510	3540	-55.40	0.17	0.00	0.00	0.63	0.57
3550	3540	3550	41.40	0.22	0.00	0.00	0.47	0.33
3555	3550	3500	26.97	0.05	0.00	0.00	0.31	0.15
3600	405	3600	77.54	0.17	0.00	0.00	0.49	0.26
3603	810	3605	348.98	0.16	0.00	0.00	0.99	0.59
3605	3600	3605	62.49	0.12	0.00	0.00	0.40	0.17
3610	410	3610	49.53	0.07	0.00	0.00	0.32	0.11
3613	3605	3615	392.24	0.21	0.00	0.00	1.11	0.73
3615	3610	3615	34.48	0.04	0.00	0.00	0.22	0.06
3620	415	3620	47.58	0.08	0.00	0.00	0.30	0.11
3623	3615	3625	411.67	0.22	0.00	0.00	1.17	0.80
3625	3620	3625	32.53	0.03	0.00	0.00	0.21	0.05
3627	3625	910	429.15	0.24	0.00	0.00	1.22	0.86
3630	425	3630	27.43	0.10	0.00	0.00	0.31	0.15
3633	910	3635	230.62	0.65	0.00	0.00	1.47	1.96
3635	3630	3635	12.39	0.02	0.00	0.00	0.14	0.04
3640	430	3640	7.16	0.00	0.00	0.00	0.05	0.00
3642	3635	3645	119.01	0.11	0.00	0.00	0.76	0.58
3643	3640	3643	7.16	0.00	0.00	0.00	0.05	0.00





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3645	3643	3645	7.16	0.00	0.00	0.00	0.05	0.00
3650	440	3650	5.11	0.00	0.00	0.00	0.06	0.01
3655	3650	440	-1.09	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	120.70	0.21	0.00	0.00	0.77	0.59
3667	3697	3665	-3.48	0.00	0.00	0.00	0.02	0.00
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	82.70	0.08	0.00	0.00	0.53	0.29
3677	3675	4510	82.70	0.10	0.00	0.00	0.53	0.29
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00
3685	3635	3685	87.37	0.22	0.00	0.00	0.56	0.33
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	76.75	0.10	0.00	0.00	0.49	0.26
3697	3695	3697	23.50	0.01	0.00	0.00	0.15	0.03
3698	3695	3698	25.99	0.01	0.00	0.00	0.17	0.03
3699	3698	4520	25.99	0.01	0.00	0.00	0.17	0.03
4000	3045	4000	150.07	0.43	0.00	0.00	0.96	0.89
4010	4000	4010	143.32	0.48	0.00	0.00	0.91	0.81
4020	4010	4020	124.91	0.32	0.00	0.00	0.80	0.63
4025	4020	3070	214.78	0.63	0.00	0.00	1.37	1.72
4030	4020	4030	-108.29	0.25	0.00	0.00	0.69	0.48
4040	4030	4040	-130.41	0.31	0.00	0.00	0.83	0.68
4045	4040	3060	-143.10	0.38	0.00	0.00	0.91	0.81
4050	4000	4050	-14.70	0.00	0.00	0.00	0.09	0.01
4060	4050	4060	-23.89	0.01	0.00	0.00	0.15	0.03
4070	4060	4070	-38.17	0.02	0.00	0.00	0.24	0.07
4080	4070	4080	-64.66	0.06	0.00	0.00	0.41	0.19
4090	4080	3055	-74.27	0.09	0.00	0.00	0.47	0.24
4100	4100	4105	-47.05	0.02	0.00	0.00	0.30	0.10
4103	3070	4105	214.98	0.56	0.00	0.00	1.37	1.72
4105	4105	4110	-50.97	0.05	0.00	0.00	0.33	0.12
4110	4110	890	-63.81	0.09	0.00	0.00	0.41	0.18
4115	4115	4120	-27.26	0.01	0.00	0.00	0.17	0.04
4120	4120	4125	-38.93	0.03	0.00	0.00	0.25	0.07
4123	4105	4120	196.45	0.43	0.00	0.00	1.25	1.46
4125	4125	880	-51.77	0.06	0.00	0.00	0.33	0.12
4130	4130	4135	-41.42	0.01	0.00	0.00	0.26	0.08
4133	4120	4135	185.67	0.40	0.00	0.00	1.19	1.31
4135	4135	4140	-31.49	0.02	0.00	0.00	0.20	0.05
4137	4135	4225	157.96	0.54	0.00	0.00	1.01	0.97
4140	4140	4145	-49.76	0.04	0.00	0.00	0.32	0.11
4145	4145	870	-68.04	0.04	0.00	0.00	0.43	0.20
4150	4140	4150	6.73	0.00	0.00	0.00	0.04	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4155	4145	4155	6.73	0.00	0.00	0.00	0.04	0.00
4200	860	4200	163.65	0.27	0.00	0.00	1.04	1.04
4205	4200	4205	126.27	0.19	0.00	0.00	0.81	0.64
4210	4205	4210	95.67	0.11	0.00	0.00	0.61	0.38
4215	4210	935	54.94	0.04	0.00	0.00	0.35	0.14
4220	860	4220	40.16	0.04	0.00	0.00	0.26	0.08
4225	4220	4225	26.45	0.01	0.00	0.00	0.17	0.04
4227	4225	4235	142.70	0.24	0.00	0.00	0.91	0.81
4230	4200	4230	26.66	0.02	0.00	0.00	0.17	0.04
4235	4230	4235	15.94	0.01	0.00	0.00	0.10	0.01
4237	4235	4245	123.29	0.18	0.00	0.00	0.79	0.62
4240	4205	4240	19.88	0.01	0.00	0.00	0.13	0.02
4245	4240	4245	9.16	0.00	0.00	0.00	0.06	0.00
4247	4245	4255	101.43	0.13	0.00	0.00	0.65	0.43
4250	4210	4250	30.01	0.02	0.00	0.00	0.19	0.04
4255	4250	4255	19.29	0.01	0.00	0.00	0.12	0.02
4257	4255	950	78.18	0.07	0.00	0.00	0.50	0.26
4260	4225	4260	6.14	0.00	0.00	0.00	0.04	0.00
4265	4260	4265	-7.57	0.00	0.00	0.00	0.05	0.00
4266	4265	4266	-176.10	0.20	0.00	0.00	1.12	1.19
4267	4265	4275	144.25	0.24	0.00	0.00	0.92	0.82
4268	4265	4267	5.29	0.00	0.00	0.00	0.03	0.00
4270	4235	4270	12.46	0.00	0.00	0.00	0.08	0.01
4275	4270	4275	0.30	0.00	0.00	0.00	0.00	0.00
4277	4275	4285	121.80	0.18	0.00	0.00	0.78	0.60
4278	4275	4278	5.29	0.00	0.00	0.00	0.03	0.00
4280	4245	4280	8.13	0.00	0.00	0.00	0.05	0.00
4285	4280	4285	-4.03	0.00	0.00	0.00	0.03	0.00
4287	4285	4295	105.61	0.14	0.00	0.00	0.67	0.46
4290	4255	4290	19.71	0.01	0.00	0.00	0.13	0.02
4295	4290	4295	7.59	0.00	0.00	0.00	0.05	0.00
4297	4295	970	101.08	0.12	0.00	0.00	0.65	0.43
4300	960	4300	122.52	0.19	0.00	0.00	0.78	0.61
4305	4300	4340	5.34	0.00	0.00	0.00	0.03	0.00
4310	4300	4310	104.44	0.13	0.00	0.00	0.67	0.45
4315	4310	4350	6.07	0.00	0.00	0.00	0.04	0.00
4320	4310	4320	85.63	0.09	0.00	0.00	0.55	0.31
4325	4320	4360	0.15	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	72.74	0.07	0.00	0.00	0.46	0.23
4335	4330	4370	-0.48	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	60.48	0.05	0.00	0.00	0.39	0.16
4340	970	4340	120.99	0.18	0.00	0.00	0.77	0.59
4345	4340	4380	5.29	0.00	0.00	0.00	0.03	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4350	4340	4350	103.01	0.13	0.00	0.00	0.66	0.44
4355	4350	4390	5.29	0.00	0.00	0.00	0.03	0.00
4360	4350	4360	85.75	0.09	0.00	0.00	0.55	0.31
4370	4360	4370	73.16	0.07	0.00	0.00	0.47	0.23
4375	4370	4590	59.94	0.05	0.00	0.00	0.38	0.16
4400	4550	4400	-22.34	0.01	0.00	0.00	0.14	0.03
4410	4400	4410	-31.24	0.02	0.00	0.00	0.20	0.05
4420	4410	4420	-49.27	0.05	0.00	0.00	0.31	0.11
4430	4420	4430	7.21	0.00	0.00	0.00	0.05	0.00
4440	4420	5020	-65.61	0.13	0.00	0.00	0.42	0.19
4500	450	4500	-216.39	0.17	0.00	0.00	0.61	0.24
4510	4500	4510	-246.83	0.19	0.00	0.00	0.70	0.31
4520	4510	4520	-216.44	0.16	0.00	0.00	0.61	0.24
4530	4520	4530	-285.75	0.16	0.00	0.00	0.81	0.41
4540	4530	5030	-299.45	0.16	0.00	0.00	0.85	0.44
4545	5030	4540	3.14	0.00	0.00	0.00	0.00	0.00
4550	4540	4550	-43.37	0.00	0.00	0.00	0.05	0.00
4560	4550	4560	-69.64	0.00	0.00	0.00	0.09	0.00
4570	4560	4570	-107.72	0.00	0.00	0.00	0.14	0.01
4580	4570	4580	-51.48	0.00	0.00	0.00	0.06	0.00
4590	4580	4590	-55.71	0.00	0.00	0.00	0.07	0.00
4600	600	4600	-96.37	0.27	0.00	0.00	0.62	0.39
4610	4600	4610	-116.08	0.36	0.00	0.00	0.74	0.55
4620	4610	4620	-116.08	0.37	0.00	0.00	0.74	0.55
4630	4620	5040	-116.08	0.38	0.00	0.00	0.74	0.55
4700	610	4700	-136.83	0.04	0.00	0.00	0.39	0.10
4710	4700	4710	-140.87	0.04	0.00	0.00	0.40	0.11
4720	4710	4720	-289.73	0.28	0.00	0.00	0.82	0.42
4730	4720	4730	-324.44	0.08	0.00	0.00	0.92	0.51
4740	4730	4740	-360.84	0.31	0.00	0.00	1.02	0.62
4750	4740	4750	-396.95	0.13	0.00	0.00	1.13	0.74
4760	4750	5050	-406.57	0.39	0.00	0.00	1.15	0.78
4800	620	4800	142.31	0.01	0.00	0.00	0.40	0.11
4810	4800	4810	-123.56	0.37	0.00	0.00	0.79	0.62
4820	4810	4820	-133.50	0.34	0.00	0.00	0.85	0.71
4830	4820	4830	-133.50	0.33	0.00	0.00	0.85	0.71
4840	4830	4840	-97.10	0.20	0.00	0.00	0.62	0.40
4850	4810	4850	-8.09	0.00	0.00	0.00	0.02	0.00
4860	4840	5060	-97.10	0.27	0.00	0.00	0.62	0.40
4870	4710	4850	109.92	0.34	0.00	0.00	1.25	2.02
4880	4850	4870	101.45	0.85	0.00	0.00	1.15	1.74
4885	4830	4880	-36.40	0.03	0.00	0.00	0.23	0.06
4890	4880	4730	-36.40	0.02	0.00	0.00	0.23	0.06





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4900	4800	4900	179.76	0.12	0.00	0.00	0.51	0.17
4905	4900	630	36.13	0.00	0.00	0.00	0.10	0.01
4910	4900	4910	91.21	0.02	0.00	0.00	0.26	0.05
4920	4910	4920	80.54	0.00	0.00	0.00	0.23	0.04
4930	4920	4930	159.18	0.06	0.00	0.00	0.45	0.14
4935	4930	640	153.09	0.01	0.00	0.00	0.43	0.13
4940	4930	4940	4.55	0.00	0.00	0.00	0.01	0.00
4945	4940	4947	-60.81	0.01	0.00	0.00	0.17	0.02
4950	4920	4950	-78.64	0.02	0.00	0.00	0.22	0.04
4955	4947	4955	-68.92	0.15	0.00	0.00	0.44	0.21
4957	4955	4995	-91.52	0.10	0.00	0.00	0.58	0.35
4960	4950	4960	-105.15	0.03	0.00	0.00	0.30	0.06
4965	4960	4965	-125.86	0.01	0.00	0.00	0.36	0.09
4970	4965	4970	-145.10	0.02	0.00	0.00	0.41	0.12
4975	4970	4975	-124.89	0.04	0.00	0.00	0.35	0.09
4977	4975	4977	-127.48	0.04	0.00	0.00	0.36	0.09
4980	4977	4980	-138.06	0.04	0.00	0.00	0.39	0.11
4985	4980	4985	-213.04	0.07	0.00	0.00	0.60	0.24
4990	4985	4990	-285.68	0.13	0.00	0.00	0.81	0.40
4993	5080	4990	423.94	0.27	0.00	0.00	1.20	0.84
4995	4980	4995	64.41	0.01	0.00	0.00	0.18	0.03
5000	5000	5010	875.65	0.24	0.00	0.00	1.10	0.45
5010	5010	5020	875.65	0.22	0.00	0.00	1.10	0.45
5020	5020	5030	810.03	0.19	0.00	0.00	1.02	0.39
5030	5030	5040	495.19	0.11	0.00	0.00	0.62	0.16
5040	5040	5050	1431.89	0.74	0.00	0.00	1.81	1.11
5050	5050	5060	1025.33	0.41	0.00	0.00	1.29	0.60
5060	5060	5070	928.22	0.55	0.00	0.00	1.17	0.50
5070	5070	5080	928.22	0.41	0.00	0.00	1.17	0.50
5080	5080	5090	504.28	0.12	0.00	0.00	0.64	0.16
5090	5090	6000	504.28	0.10	0.00	0.00	0.64	0.16
5100	4900	5100	-18.31	0.02	0.00	0.00	0.12	0.02
5105	5100	4960	-18.31	0.01	0.00	0.00	0.12	0.02
5110	4970	5110	-20.20	0.01	0.00	0.00	0.13	0.02
5120	5110	5120	-31.94	0.03	0.00	0.00	0.20	0.05
5125	5120	4975	-22.99	0.01	0.00	0.00	0.15	0.03
5130	5120	5130	-25.30	0.02	0.00	0.00	0.16	0.03
5140	5130	5140	-41.64	0.02	0.00	0.00	0.27	0.08
5145	5140	5150	-79.41	0.12	0.00	0.00	0.51	0.27
5150	5150	4990	-89.98	0.13	0.00	0.00	0.57	0.34
5160	5140	5160	11.80	0.00	0.00	0.00	0.08	0.01
5163	5160	4975	48.76	0.03	0.00	0.00	0.31	0.11
5165	5160	5170	-51.49	0.05	0.00	0.00	0.33	0.12





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5170	5170	4985	-62.06	0.06	0.00	0.00	0.40	0.17
5180	4965	5180	12.02	0.00	0.00	0.00	0.05	0.00
5190	4950	5190	24.10	0.07	0.00	0.00	0.27	0.12
5195	5190	4947	14.49	0.00	0.00	0.00	0.06	0.00
5200	4995	5200	-27.12	0.00	0.00	0.00	0.08	0.01
5205	5205	5200	38.83	0.00	0.00	0.00	0.11	0.01
5210	5205	5210	-46.67	0.00	0.00	0.00	0.13	0.01
5215	5210	5260	-31.41	0.00	0.00	0.00	0.09	0.01
5217	5210	5215	-21.07	0.04	0.00	0.00	0.24	0.09
5220	5220	5215	28.91	0.04	0.00	0.00	0.33	0.17
5225	5220	5265	63.36	0.01	0.00	0.00	0.18	0.02
5230	5230	5220	100.10	0.02	0.00	0.00	0.28	0.06
5235	5250	5230	-27.15	0.09	0.00	0.00	0.31	0.15
5237	5230	5235	-135.57	0.04	0.00	0.00	0.38	0.10
5240	5200	5240	0.70	0.00	0.00	0.00	0.01	0.00
5250	5240	5250	-5.21	0.00	0.00	0.00	0.06	0.01
5252	5250	5210	9.91	0.00	0.00	0.00	0.06	0.01
5255	5200	5255	3.18	0.00	0.00	0.00	0.04	0.00
5260	5255	5260	-8.60	0.01	0.00	0.00	0.10	0.02
5265	5260	5265	-137.92	0.06	0.00	0.00	0.39	0.11
5270	5260	5270	74.35	0.08	0.00	0.00	0.47	0.24
5272	5270	5279	72.14	0.15	0.00	0.00	0.46	0.23
5275	5280	5279	-46.32	0.02	0.00	0.00	0.30	0.10
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	-19.73	0.01	0.00	0.00	0.13	0.02
5285	5280	5290	-57.46	0.11	0.00	0.00	0.37	0.15
5290	5290	5295	-57.46	0.13	0.00	0.00	0.65	0.61
5292	5265	5292	-9.85	0.01	0.00	0.00	0.11	0.02
5295	5292	5297	-9.85	0.01	0.00	0.00	0.11	0.02
5297	5295	5297	-39.37	0.10	0.00	0.00	0.45	0.30
5500	4540	5500	39.01	0.03	0.00	0.00	0.25	0.07
5510	4550	5510	32.22	0.02	0.00	0.00	0.21	0.05
5520	4560	5520	30.58	0.02	0.00	0.00	0.20	0.05
5530	5500	5530	31.50	0.02	0.00	0.00	0.20	0.05
5535	5040	5530	-56.80	0.07	0.00	0.00	0.36	0.15
5540	5510	5540	24.72	0.01	0.00	0.00	0.16	0.03
5545	5530	5540	-32.80	0.01	0.00	0.00	0.21	0.05
5550	5520	5550	23.08	0.01	0.00	0.00	0.15	0.03
5555	5540	5550	-15.58	0.00	0.00	0.00	0.10	0.01
6000	6000	5235	232.45	0.12	0.00	0.00	0.66	0.28
7000	30	7000	1956.10	0.52	0.00	0.00	2.47	1.98
7005	7000	7005	1616.55	0.41	0.00	0.00	2.04	1.39
7010	7005	7010	1504.49	0.38	0.00	0.00	1.90	1.22



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

P I P E L I N E R E S U L T S								
PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7015	7010	7015	1371.26	0.60	0.00	0.00	1.73	1.03
7020	7015	7020	1016.51	0.39	0.00	0.00	1.28	0.59
7025	7020	7025	948.24	0.33	0.00	0.00	1.20	0.52
7030	7025	7030	1694.89	0.11	0.00	0.00	2.14	1.52
7035	7030	7035	1379.58	0.90	0.00	0.00	1.74	1.04
7040	7035	7040	1343.32	0.51	0.00	0.00	1.69	0.99
7045	7040	7045	1341.79	0.57	0.00	0.00	1.69	0.99
7050	7045	7050	1305.58	0.26	0.00	0.00	1.65	0.94
7055	7050	7055	1237.99	0.22	0.00	0.00	1.56	0.85
7060	7055	7060	1320.78	0.49	0.00	0.00	1.67	0.96
7070	7060	7070	588.48	0.10	0.00	0.00	0.74	0.21
7075	8775	7070	-237.63	0.13	0.00	0.00	1.52	1.48
7080	7070	7080	350.85	0.37	0.00	0.00	1.00	0.59
7100	7000	7100	92.14	0.23	0.00	0.00	0.59	0.36
7105	7100	7005	76.75	0.17	0.00	0.00	0.49	0.26
7110	7010	7110	92.51	0.42	0.00	0.00	0.49	0.26
7120	7110	7120	39.84	0.19	0.00	0.00	1.05	1.47
7125	7015	7120	10.15	0.00	0.00	0.00	0.45	0.31
7130	7120	7130	28.74	0.11	0.00	0.00	0.06	0.01
7135	7130	7020	73.76	0.28	0.00	0.00	0.33	0.17
7140	7140	7150	29.58	0.10	0.00	0.00	0.84	0.96
7145	7140	7110	-41.12	0.09	0.00	0.00	0.34	0.18
7150	7150	7160	14.30	0.03	0.00	0.00	0.47	0.33
7155	7150	7120	-2.99	0.00	0.00	0.00	0.16	0.05
7165	7160	7130	38.76	0.08	0.00	0.00	0.02	0.00
7167	7160	7210	-43.69	0.24	0.00	0.00	0.44	0.29
7200	7025	7200	-755.79	0.70	0.00	0.00	0.50	0.37
7210	7200	7210	-427.92	0.23	0.00	0.00	2.14	2.45
7215	7200	7210	-365.58	0.23	0.00	0.00	1.21	0.86
7220	7130	7200	-25.50	0.09	0.00	0.00	1.04	0.64
7300	7300	7310	-183.71	1.01	0.00	0.00	0.29	0.13
7310	7310	7000	-232.99	0.72	0.00	0.00	2.08	5.23
7320	7310	7320	39.66	0.08	0.00	0.00	1.49	2.00
7325	7320	7005	-174.39	0.40	0.00	0.00	0.45	0.31
7330	7320	7330	204.43	0.50	0.00	0.00	1.11	1.17
7340	7330	7340	196.40	0.76	0.00	0.00	1.30	1.57
7343	7340	7400	368.87	1.15	0.00	0.00	1.25	1.46
7345	7340	7300	-180.49	0.33	0.00	0.00	2.35	4.68
7350	7015	7350	315.74	0.97	0.00	0.00	1.15	1.25
7355	7350	7360	20.41	0.06	0.00	0.00	2.02	3.51
7360	7360	7020	-120.55	0.64	0.00	0.00	0.23	0.09
7365	7360	7380	128.85	0.74	0.00	0.00	1.37	2.40
7370	7370	7350	-285.71	0.76	0.00	0.00	1.46	2.71
							1.82	2.92



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7373	7370	7410	259.34	0.73	0.00	0.00	1.66	2.44
7375	7370	7380	16.76	0.04	0.00	0.00	0.19	0.06
7385	7380	7415	133.49	0.87	0.00	0.00	1.51	2.89
7390	7420	7390	2.93	0.00	0.00	0.00	0.03	0.00
7400	7400	7405	60.34	0.40	0.00	0.00	0.68	0.67
7403	7400	7430	289.78	0.92	0.00	0.00	1.85	3.00
7405	7405	7410	41.59	0.24	0.00	0.00	0.47	0.33
7410	7410	7415	36.31	0.17	0.00	0.00	0.41	0.26
7413	7410	7440	230.47	0.61	0.00	0.00	1.47	1.96
7415	7415	7420	51.01	0.10	0.00	0.00	0.58	0.49
7418	7415	7445	98.40	0.50	0.00	0.00	1.12	1.65
7420	7420	7425	24.52	0.06	0.00	0.00	0.28	0.13
7425	7425	7450	14.14	0.02	0.00	0.00	0.16	0.05
7430	7430	7435	45.02	0.23	0.00	0.00	0.51	0.39
7433	7430	7455	226.01	0.56	0.00	0.00	1.44	1.89
7435	7435	7440	26.27	0.10	0.00	0.00	0.30	0.14
7440	7440	7445	20.83	0.06	0.00	0.00	0.24	0.09
7443	7440	7465	204.86	0.49	0.00	0.00	1.31	1.58
7448	7445	7470	96.15	0.49	0.00	0.00	1.09	1.58
7455	7455	7460	40.86	0.19	0.00	0.00	0.46	0.32
7458	7455	7480	166.39	0.34	0.00	0.00	1.06	1.07
7459	7495	7520	59.68	0.13	0.00	0.00	0.68	0.65
7460	7460	7465	22.11	0.07	0.00	0.00	0.25	0.10
7465	7465	7470	20.23	0.06	0.00	0.00	0.23	0.09
7468	7465	7490	176.25	0.36	0.00	0.00	1.12	1.19
7473	7470	7495	93.41	0.45	0.00	0.00	1.06	1.49
7480	7480	7485	42.66	0.21	0.00	0.00	0.48	0.35
7483	7480	7505	102.33	0.09	0.00	0.00	0.65	0.44
7485	7485	7490	23.91	0.09	0.00	0.00	0.27	0.12
7490	7490	7495	32.88	0.15	0.00	0.00	0.37	0.22
7493	7490	7515	128.58	0.13	0.00	0.00	0.82	0.67
7495	7495	7500	34.63	0.16	0.00	0.00	0.39	0.24
7500	7500	7475	0.58	0.00	0.00	0.00	0.01	0.00
7503	7500	7080	17.23	0.01	0.00	0.00	0.20	0.07
7504	7080	7525	364.95	0.03	0.00	0.00	1.04	0.64
7505	7505	7510	104.83	0.30	0.00	0.00	0.67	0.46
7508	7505	7550	-9.23	0.00	0.00	0.00	0.06	0.01
7510	7510	7515	31.95	0.03	0.00	0.00	0.20	0.05
7513	7510	7530	59.42	0.14	0.00	0.00	0.67	0.65
7515	7515	7520	70.72	0.15	0.00	0.00	0.45	0.22
7518	7515	7535	76.35	0.22	0.00	0.00	0.87	1.03
7520	7520	7525	47.50	0.07	0.00	0.00	0.30	0.11
7523	7520	7540	69.44	0.19	0.00	0.00	0.79	0.86





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

## PIPELINE RESULTS

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7528	7525	7545	403.12	0.15	0.00	0.00	1.14	0.77
7530	7530	7535	29.68	0.12	0.00	0.00	0.34	0.18
7533	7530	7555	23.00	0.02	0.00	0.00	0.26	0.11
7535	7535	7540	28.86	0.12	0.00	0.00	0.33	0.17
7538	7535	7565	63.71	0.27	0.00	0.00	0.72	0.74
7540	7540	7545	15.77	0.04	0.00	0.00	0.18	0.06
7543	7540	7570	69.06	0.30	0.00	0.00	0.78	0.85
7548	7545	7575	412.16	0.29	0.00	0.00	1.17	0.80
7550	7550	7555	61.70	0.46	0.00	0.00	0.70	0.69
7553	7550	7573	-84.39	0.11	0.00	0.00	0.54	0.30
7558	7555	7560	71.24	0.16	0.00	0.00	0.81	0.90
7560	7560	7565	39.53	0.20	0.00	0.00	0.45	0.30
7563	7560	7577	18.24	0.00	0.00	0.00	0.12	0.02
7565	7565	7570	33.32	0.15	0.00	0.00	0.38	0.22
7568	7565	7590	43.00	0.13	0.00	0.00	0.49	0.36
7570	7570	7575	13.53	0.03	0.00	0.00	0.15	0.04
7572	7573	7577	169.12	0.74	0.00	0.00	1.08	1.10
7573	7570	7595	61.93	0.26	0.00	0.00	0.70	0.70
7576	7573	7580	-266.97	0.50	0.00	0.00	1.70	2.57
7577	7577	7585	173.90	0.22	0.00	0.00	1.11	1.16
7578	7575	7600	412.23	0.29	0.00	0.00	1.17	0.80
7582	7580	80	-277.21	0.32	0.00	0.00	1.77	2.76
7583	7580	7605	10.24	0.00	0.00	0.00	0.12	0.02
7585	7585	7590	28.93	0.11	0.00	0.00	0.33	0.17
7588	7585	7610	131.51	0.24	0.00	0.00	0.84	0.69
7590	7590	7595	46.45	0.28	0.00	0.00	0.53	0.41
7595	7595	7600	19.79	0.06	0.00	0.00	0.22	0.08
7598	7595	7620	63.10	0.25	0.00	0.00	0.72	0.72
7603	7600	7625	419.28	0.28	0.00	0.00	1.19	0.82
7610	7610	7615	95.11	0.25	0.00	0.00	0.61	0.38
7613	7610	10000	24.38	0.01	0.00	0.00	0.16	0.03
7615	7615	7620	71.07	0.15	0.00	0.00	0.45	0.22
7620	7620	7625	52.35	0.09	0.00	0.00	0.33	0.13
7623	7620	10020	57.42	0.19	0.00	0.00	0.65	0.61
7628	7625	10030	459.27	0.32	0.00	0.00	1.30	0.98
7700	510	7700	70.92	0.61	0.00	0.00	0.80	0.90
7703	7700	7720	910.96	0.30	0.00	0.00	1.45	0.85
7705	7700	7705	56.40	0.40	0.00	0.00	0.64	0.59
7710	7705	7710	33.47	0.15	0.00	0.00	0.38	0.22
7713	7710	7730	164.49	0.38	0.00	0.00	1.05	1.05
7715	7710	7715	-11.70	0.02	0.00	0.00	0.13	0.03
7718	7715	7735	28.48	0.44	0.00	0.00	0.73	1.19
7720	505	7720	43.02	0.24	0.00	0.00	0.49	0.36



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7723	7720	7740	857.82	0.28	0.00	0.00	1.37	0.76
7725	7720	7725	61.40	0.45	0.00	0.00	0.70	0.69
7730	7725	7730	35.78	0.17	0.00	0.00	0.41	0.25
7733	7730	7750	163.99	0.37	0.00	0.00	1.05	1.04
7735	7730	7735	15.95	0.04	0.00	0.00	0.18	0.06
7738	7735	7755	33.95	0.58	0.00	0.00	0.87	1.65
7740	500	7740	-23.46	0.01	0.00	0.00	0.10	0.01
7743	7740	7760	659.41	0.66	0.00	0.00	1.87	1.91
7745	7740	7745	154.90	0.21	0.00	0.00	0.63	0.32
7750	7745	7750	135.38	0.51	0.00	0.00	0.86	0.73
7753	7750	7770	178.42	0.43	0.00	0.00	1.14	1.22
7755	7750	7755	94.22	0.24	0.00	0.00	0.60	0.37
7758	7755	7775	52.93	0.18	0.00	0.00	0.60	0.52
7760	495	7760	17.00	0.04	0.00	0.00	0.19	0.06
7763	7760	7780	585.97	0.57	0.00	0.00	1.66	1.53
7765	7760	7765	57.84	0.41	0.00	0.00	0.66	0.61
7770	7765	7770	22.93	0.08	0.00	0.00	0.26	0.11
7773	7770	7790	171.86	0.41	0.00	0.00	1.10	1.14
7775	7770	7775	-4.89	0.00	0.00	0.00	0.06	0.01
7778	7775	7795	32.89	0.57	0.00	0.00	0.84	1.56
7780	490	7780	4.00	0.00	0.00	0.00	0.05	0.00
7782	7780	7805	508.14	0.20	0.00	0.00	1.44	1.18
7783	7805	7800	471.54	0.20	0.00	0.00	1.34	1.02
7785	7780	7785	49.53	0.31	0.00	0.00	0.56	0.46
7790	7785	7790	12.31	0.02	0.00	0.00	0.14	0.04
7793	7790	7820	112.90	0.20	0.00	0.00	0.72	0.52
7795	7790	7795	34.73	0.16	0.00	0.00	0.39	0.24
7798	7795	7825	54.64	0.21	0.00	0.00	0.62	0.55
7800	485	7800	-24.33	0.08	0.00	0.00	0.28	0.12
7803	7800	7900	441.43	0.17	0.00	0.00	1.25	0.91
7805	7805	7810	34.67	0.16	0.00	0.00	0.39	0.24
7810	7800	7815	0.15	0.00	0.00	0.00	0.00	0.00
7813	7810	7815	32.75	0.04	0.00	0.00	0.37	0.21
7815	7815	7820	30.50	0.13	0.00	0.00	0.35	0.19
7820	7820	7825	12.39	0.16	0.00	0.00	0.32	0.26
7823	7820	7910	124.77	0.12	0.00	0.00	0.80	0.63
7828	7825	7915	63.18	0.00	0.00	0.00	0.18	0.02
7830	465	7830	-11.55	0.02	0.00	0.00	0.13	0.03
7833	7830	7940	143.66	0.30	0.00	0.00	0.92	0.82
7835	7830	7835	-14.22	0.03	0.00	0.00	0.16	0.05
7840	7835	7840	-17.34	0.05	0.00	0.00	0.20	0.07
7843	7840	7950	78.08	0.09	0.00	0.00	0.50	0.26
7845	7840	7845	-12.98	0.03	0.00	0.00	0.15	0.04



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7848	7845	7955	187.94	0.07	0.00	0.00	0.53	0.19
7850	705	7850	-88.05	0.23	0.00	0.00	0.56	0.33
7855	7850	7855	53.28	0.09	0.00	0.00	0.34	0.13
7860	7855	7860	48.28	0.02	0.00	0.00	0.31	0.11
7862	7860	7880	182.70	0.62	0.00	0.00	2.07	5.18
7865	7860	7865	-139.23	0.37	0.00	0.00	0.89	0.77
7870	7865	7870	8.08	0.00	0.00	0.00	0.05	0.00
7875	7875	7880	-91.35	0.24	0.00	0.00	1.04	1.43
7880	7880	7885	91.35	0.52	0.00	0.00	1.04	1.43
7890	7890	7895	-91.35	0.66	0.00	0.00	1.04	1.43
7898	8000	7895	93.76	0.12	0.00	0.00	0.60	0.37
7900	480	7900	-34.32	0.01	0.00	0.00	0.10	0.01
7903	7900	7920	275.41	0.15	0.00	0.00	0.78	0.38
7905	7900	7905	108.82	0.05	0.00	0.00	0.31	0.07
7910	7905	7910	88.82	0.03	0.00	0.00	0.25	0.05
7913	7910	7930	79.87	0.10	0.00	0.00	0.51	0.28
7915	7910	7915	114.63	0.05	0.00	0.00	0.33	0.07
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	173.91	0.06	0.00	0.00	0.49	0.16
7920	470	7920	-45.65	0.07	0.00	0.00	0.29	0.10
7923	7920	7830	150.60	0.18	0.00	0.00	0.96	0.89
7925	7920	7925	69.30	0.02	0.00	0.00	0.20	0.03
7930	7925	7930	59.68	0.02	0.00	0.00	0.17	0.02
7933	7930	7840	89.66	0.07	0.00	0.00	0.57	0.34
7935	7930	7935	40.28	0.01	0.00	0.00	0.11	0.01
7937	7845	7937	0.53	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	206.98	0.04	0.00	0.00	0.59	0.22
7940	700	7940	-159.77	0.09	0.00	0.00	0.45	0.14
7943	7940	7850	150.18	0.32	0.00	0.00	0.96	0.89
7945	7940	7945	-186.97	0.12	0.00	0.00	0.53	0.18
7950	7945	7950	-207.64	0.16	0.00	0.00	0.59	0.22
7953	7950	7865	152.11	0.33	0.00	0.00	0.97	0.91
7955	7950	7955	-297.54	0.04	0.00	0.00	0.38	0.06
8000	710	8000	69.23	0.58	0.00	0.00	0.79	0.86
8003	8000	8020	-60.96	0.02	0.00	0.00	0.39	0.17
8005	8000	8005	22.88	0.06	0.00	0.00	0.26	0.11
8010	8005	8010	7.11	0.01	0.00	0.00	0.08	0.01
8013	8010	8030	-9.86	0.00	0.00	0.00	0.11	0.02
8015	8010	8015	3.99	0.00	0.00	0.00	0.05	0.00
8020	715	8020	59.04	0.43	0.00	0.00	0.67	0.64
8023	8020	8040	-41.29	0.03	0.00	0.00	0.26	0.08
8025	8020	8025	25.80	0.08	0.00	0.00	0.29	0.14
8030	8025	8030	9.41	0.02	0.00	0.00	0.11	0.02





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8033	8030	8050	-32.67	0.07	0.00	0.00	0.37	0.21
8035	8030	8035	11.30	0.02	0.00	0.00	0.13	0.03
8040	720	8040	221.41	0.17	0.00	0.00	0.63	0.25
8043	8040	8060	67.07	0.07	0.00	0.00	0.43	0.20
8045	8040	8045	87.96	0.03	0.00	0.00	0.25	0.05
8050	8045	8050	62.86	0.02	0.00	0.00	0.18	0.02
8053	8050	8070	64.74	0.25	0.00	0.00	0.73	0.76
8055	8050	8055	-55.78	0.01	0.00	0.00	0.16	0.02
8060	725	8060	32.93	0.15	0.00	0.00	0.37	0.22
8065	8060	8065	63.66	0.49	0.00	0.00	0.72	0.73
8070	8065	8070	-45.51	0.26	0.00	0.00	0.52	0.39
8075	8075	8060	-16.15	0.02	0.00	0.00	0.18	0.06
8080	730	8080	16.64	0.01	0.00	0.00	0.11	0.02
8085	8080	8085	8.32	0.02	0.00	0.00	0.21	0.12
8090	8065	8090	94.74	0.30	0.00	0.00	0.60	0.38
8095	8090	8095	-11.81	0.00	0.00	0.00	0.08	0.01
8100	750	8100	109.26	0.34	0.00	0.00	0.70	0.49
8105	8100	8105	109.26	0.17	0.00	0.00	0.70	0.49
8110	8105	8110	54.98	0.04	0.00	0.00	0.35	0.14
8115	8105	8115	42.65	0.05	0.00	0.00	0.27	0.09
8117	8115	8120	-2.81	0.00	0.00	0.00	0.02	0.00
8120	8110	8120	16.85	0.01	0.00	0.00	0.11	0.02
8125	8115	8125	2.40	0.00	0.00	0.00	0.02	0.00
8130	8120	8130	2.40	0.00	0.00	0.00	0.02	0.00
8135	8095	8135	-30.60	0.02	0.00	0.00	0.20	0.05
8137	8135	8115	-35.80	0.02	0.00	0.00	0.23	0.06
8140	8095	8140	1.01	0.00	0.00	0.00	0.01	0.00
8145	8110	8145	30.87	0.02	0.00	0.00	0.20	0.05
8200	8055	8200	-64.43	0.06	0.00	0.00	0.41	0.18
8205	8200	8205	0.91	0.00	0.00	0.00	0.01	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-66.31	0.10	0.00	0.00	0.42	0.20
8220	8215	8220	-48.82	0.30	0.00	0.00	0.55	0.45
8225	8220	8225	-70.94	0.50	0.00	0.00	0.80	0.90
8227	8225	8240	185.81	0.08	0.00	0.00	0.53	0.18
8230	8215	8230	-31.33	0.02	0.00	0.00	0.20	0.05
8235	8230	8235	-44.08	0.25	0.00	0.00	0.50	0.37
8240	8235	8240	-66.20	0.44	0.00	0.00	0.75	0.79
8247	8240	8265	97.50	0.02	0.00	0.00	0.28	0.06
8250	8230	8250	-9.37	0.00	0.00	0.00	0.06	0.01
8255	8250	8255	-20.42	0.06	0.00	0.00	0.23	0.09
8260	8255	8260	-40.37	0.02	0.00	0.00	0.46	0.32
8265	8260	8265	-79.23	0.59	0.00	0.00	0.90	1.10





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8270	8255	8270	8.89	0.00	0.00	0.00	0.06	0.00
8275	8270	8275	3.12	0.00	0.00	0.00	0.02	0.00
8278	8275	8290	-8.95	0.00	0.00	0.00	0.06	0.00
8280	8275	8280	6.30	0.00	0.00	0.00	0.04	0.00
8285	8280	8285	0.53	0.00	0.00	0.00	0.00	0.00
8290	8285	8290	-8.37	0.00	0.00	0.00	0.05	0.00
8295	8290	8295	-26.21	0.01	0.00	0.00	0.17	0.03
8297	8295	8260	-27.80	0.01	0.00	0.00	0.18	0.04
8300	10200	8300	159.65	0.60	0.00	0.00	1.02	0.99
8303	10200	8300	75.56	0.60	0.00	0.00	0.86	1.01
8305	8300	8310	231.03	0.20	0.00	0.00	0.66	0.27
8310	8310	8320	276.75	0.24	0.00	0.00	0.79	0.38
8325	8320	8225	275.89	0.09	0.00	0.00	0.78	0.38
8330	8310	8330	-45.72	0.06	0.00	0.00	0.29	0.10
8340	8330	8340	-45.72	0.08	0.00	0.00	0.29	0.10
8350	8340	8350	4.81	0.00	0.00	0.00	0.05	0.01
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-50.53	0.29	0.00	0.00	0.57	0.48
8390	8380	10190	-57.74	0.41	0.00	0.00	0.66	0.61
8400	10070	8400	9.02	0.00	0.00	0.00	0.06	0.00
8410	8400	8410	57.93	0.06	0.00	0.00	0.37	0.15
8420	8410	8420	45.89	0.01	0.00	0.00	0.29	0.10
8425	8420	10080	52.25	0.01	0.00	0.00	0.15	0.02
8430	8410	8430	11.46	0.00	0.00	0.00	0.07	0.01
8440	8430	8440	10.88	0.00	0.00	0.00	0.07	0.01
8450	8440	8450	7.32	0.01	0.00	0.00	0.08	0.01
8455	8450	8420	6.36	0.00	0.00	0.00	0.02	0.00
8460	8440	8460	2.50	0.00	0.00	0.00	0.06	0.01
8470	8460	8470	1.25	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	284.54	0.15	0.00	0.00	0.81	0.40
8510	8500	8510	283.33	0.15	0.00	0.00	0.80	0.40
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	232.27	0.10	0.00	0.00	0.66	0.28
8525	8520	8525	7.40	0.00	0.00	0.00	0.08	0.01
8530	8520	8530	223.85	0.05	0.00	0.00	0.63	0.26
8540	8530	8540	223.61	0.05	0.00	0.00	0.63	0.26
8550	8540	8550	220.29	0.09	0.00	0.00	0.62	0.25
8555	8550	10200	162.70	0.14	0.00	0.00	0.66	0.35
8560	8550	8560	24.57	0.02	0.00	0.00	0.16	0.03
8600	10100	8600	62.46	0.27	0.00	0.00	0.71	0.71
8605	8600	8610	24.22	0.04	0.00	0.00	0.27	0.12
8610	10110	8610	55.74	0.21	0.00	0.00	0.63	0.57



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8615	8610	10140	19.54	0.06	0.00	0.00	0.22	0.08
8620	8600	8620	31.08	0.07	0.00	0.00	0.35	0.19
8622	8620	8510	-49.34	0.16	0.00	0.00	0.56	0.46
8625	8620	8630	32.14	0.07	0.00	0.00	0.36	0.21
8630	8610	8630	37.29	0.10	0.00	0.00	0.42	0.27
8635	8630	10160	17.69	0.05	0.00	0.00	0.20	0.07
8640	8620	8640	40.45	0.12	0.00	0.00	0.46	0.32
8645	8640	8650	10.61	0.01	0.00	0.00	0.12	0.03
8650	8630	8650	26.49	0.05	0.00	0.00	0.30	0.14
8655	8650	10170	12.02	0.02	0.00	0.00	0.14	0.03
8660	8640	8660	28.15	0.02	0.00	0.00	0.18	0.04
8665	8660	8670	27.96	0.01	0.00	0.00	0.18	0.04
8670	8650	8670	15.18	0.02	0.00	0.00	0.17	0.05
8675	8670	10180	14.06	0.03	0.00	0.00	0.16	0.04
8680	8660	8680	-0.96	0.00	0.00	0.00	0.01	0.00
8685	8680	8550	-8.17	0.00	0.00	0.00	0.05	0.00
8690	8670	8690	24.74	0.09	0.00	0.00	0.28	0.13
8692	8690	10200	52.40	0.03	0.00	0.00	0.21	0.04
8695	8690	10190	-27.65	0.01	0.00	0.00	0.11	0.01
8700	8400	8700	-56.89	0.08	0.00	0.00	0.36	0.15
8705	8700	7755	-54.34	0.01	0.00	0.00	0.35	0.13
8710	8700	8710	-10.63	0.07	0.00	0.00	0.27	0.19
8715	8710	10060	-22.21	0.06	0.00	0.00	0.25	0.10
8720	10060	8720	5.10	0.00	0.00	0.00	0.06	0.01
8725	8725	10050	-9.66	0.01	0.00	0.00	0.11	0.02
8730	10050	8730	5.91	0.00	0.00	0.00	0.07	0.01
8735	10040	8735	11.88	0.02	0.00	0.00	0.13	0.03
8740	10040	8740	27.15	0.01	0.00	0.00	0.17	0.04
8745	8740	8745	8.41	0.01	0.00	0.00	0.10	0.02
8750	8740	8750	10.32	0.00	0.00	0.00	0.07	0.01
8755	8750	8755	216.36	3.94	0.00	0.00	2.45	7.08
8760	8750	8760	-214.36	0.92	0.00	0.00	1.37	1.71
8765	8760	8765	3.08	0.00	0.00	0.00	0.03	0.00
8770	8760	8770	2.40	0.00	0.00	0.00	0.03	0.00
8775	8760	8775	-230.42	1.17	0.00	0.00	1.47	1.96
8800	10100	8800	0.96	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	13.43	0.01	0.00	0.00	0.15	0.04
8810	8810	8900	9.84	0.11	0.00	0.00	0.25	0.17
8815	8810	8820	-7.76	0.01	0.00	0.00	0.09	0.01
8820	8820	8910	18.94	0.05	0.00	0.00	0.21	0.08
8825	8820	8830	-40.16	0.11	0.00	0.00	0.46	0.31
8830	8830	8920	22.20	0.07	0.00	0.00	0.25	0.10
8835	8830	8840	-66.83	0.33	0.00	0.00	0.76	0.80



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8840	8840	8845	1.59	0.00	0.00	0.00	0.02	0.00
8845	8840	8850	-69.96	0.60	0.00	0.00	0.79	0.87
8850	8850	8970	-71.98	0.63	0.00	0.00	0.82	0.92
8900	8900	10120	134.09	0.02	0.00	0.00	0.38	0.10
8910	8900	8910	-180.42	0.06	0.00	0.00	0.51	0.17
8920	8910	8920	-224.97	0.09	0.00	0.00	0.64	0.26
8930	8920	8930	-252.41	0.12	0.00	0.00	0.72	0.32
8940	8930	8940	-294.96	0.13	0.00	0.00	0.84	0.43
8950	8940	8950	-295.49	0.18	0.00	0.00	0.84	0.43
8960	8950	8960	-295.97	0.29	0.00	0.00	0.84	0.43
8965	8960	8975	-589.93	0.36	0.00	0.00	1.67	1.11
8970	8970	8975	595.13	0.54	0.00	0.00	1.69	1.58
8980	8970	8980	-669.03	0.89	0.00	0.00	1.90	1.96
8990	8980	7060	-732.30	0.97	0.00	0.00	2.08	2.32
9000	10190	9000	21.15	0.00	0.00	0.00	0.06	0.00
9010	9000	9010	16.92	0.00	0.00	0.00	0.05	0.00
9020	9010	9020	16.73	0.00	0.00	0.00	0.05	0.00
9030	9020	9030	16.73	0.00	0.00	0.00	0.05	0.00
9040	9040	9030	-15.53	0.00	0.00	0.00	0.04	0.00
9050	9040	9050	15.53	0.00	0.00	0.00	0.04	0.00
9060	9050	9060	-40.00	0.00	0.00	0.00	0.11	0.01
9070	9060	9070	-77.11	0.01	0.00	0.00	0.22	0.04
9080	9070	9080	-121.54	0.03	0.00	0.00	0.34	0.08
9090	9080	9090	-168.15	0.06	0.00	0.00	0.48	0.15
9100	9090	9100	-189.91	0.03	0.00	0.00	0.54	0.19
9110	9100	9110	-221.79	0.08	0.00	0.00	0.63	0.25
9115	9110	9115	4.81	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-222.40	0.11	0.00	0.00	0.63	0.25
9130	9120	9130	-197.54	0.17	0.00	0.00	0.56	0.20
9140	9130	9140	-91.63	0.04	0.00	0.00	0.26	0.05
9150	9140	9150	-93.40	0.03	0.00	0.00	0.26	0.05
9160	9150	9160	-177.91	0.08	0.00	0.00	0.50	0.17
9170	9170	9160	177.91	0.03	0.00	0.00	0.50	0.17
9175	9170	9175	66.62	0.18	0.00	0.00	0.43	0.20
9180	9180	9170	291.23	0.25	0.00	0.00	0.83	0.42
9190	9190	9180	291.23	0.25	0.00	0.00	0.83	0.42
9195	8960	9190	291.23	0.04	0.00	0.00	0.83	0.42
9200	7055	9200	-52.51	0.05	0.00	0.00	0.34	0.13
9210	9200	9210	-61.02	0.08	0.00	0.00	0.39	0.17
9215	9210	9240	-69.53	0.06	0.00	0.00	0.44	0.21
9220	7050	9220	-18.85	0.01	0.00	0.00	0.12	0.02
9230	9220	9230	-26.26	0.01	0.00	0.00	0.17	0.04
9235	9230	9260	-110.79	0.14	0.00	0.00	0.71	0.50





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9240	9230	9240	73.57	0.06	0.00	0.00	0.47	0.24
9250	7045	9250	59.41	0.06	0.00	0.00	0.38	0.16
9260	9250	9260	51.62	0.04	0.00	0.00	0.33	0.12
9265	9260	9280	-70.51	0.05	0.00	0.00	0.45	0.22
9270	7045	9860	-23.20	0.01	0.00	0.00	0.15	0.03
9275	9270	9860	-42.67	0.03	0.00	0.00	0.27	0.09
9280	9270	9280	35.22	0.02	0.00	0.00	0.22	0.06
9300	7030	9300	143.34	0.43	0.00	0.00	0.91	0.81
9310	9300	9310	143.34	0.25	0.00	0.00	0.91	0.81
9315	9330	9310	-143.34	0.24	0.00	0.00	0.91	0.81
9320	7030	9320	150.44	0.45	0.00	0.00	0.96	0.89
9330	9320	9330	146.11	0.47	0.00	0.00	0.93	0.84
9333	9330	9333	266.56	0.63	0.00	0.00	1.70	2.57
9335	9333	9337	101.59	0.19	0.00	0.00	0.65	0.43
9337	9370	9337	-131.75	0.19	0.00	0.00	0.84	0.70
9340	9280	9340	-45.25	0.00	0.00	0.00	0.13	0.01
9345	9340	9345	-18.43	0.01	0.00	0.00	0.12	0.02
9348	9345	9355	-23.91	0.01	0.00	0.00	0.15	0.03
9350	9340	9350	-35.23	0.02	0.00	0.00	0.22	0.06
9355	9350	9355	7.21	0.00	0.00	0.00	0.05	0.00
9360	9350	9360	-52.20	0.03	0.00	0.00	0.33	0.13
9365	9355	9365	-24.50	0.01	0.00	0.00	0.16	0.03
9368	9365	9385	-26.66	0.01	0.00	0.00	0.17	0.04
9370	9360	9370	-82.84	0.04	0.00	0.00	0.53	0.29
9375	9360	9375	19.49	0.01	0.00	0.00	0.12	0.02
9380	9370	9380	41.83	0.01	0.00	0.00	0.27	0.08
9385	9375	9385	28.92	0.01	0.00	0.00	0.18	0.04
9387	9375	9390	-18.56	0.01	0.00	0.00	0.12	0.02
9390	9380	9390	33.61	0.03	0.00	0.00	0.21	0.06
9395	9390	9395	5.48	0.00	0.00	0.00	0.03	0.00
9400	7210	9400	-848.58	3.81	0.00	0.00	2.41	3.04
9410	9400	9410	62.74	0.01	0.00	0.00	0.18	0.02
9415	9410	9415	8.27	0.00	0.00	0.00	0.05	0.00
9420	9410	9420	57.94	0.01	0.00	0.00	0.16	0.02
9425	9415	9425	5.87	0.00	0.00	0.00	0.04	0.00
9430	9420	9430	45.00	0.01	0.00	0.00	0.13	0.01
9435	9425	9410	3.46	0.00	0.00	0.00	0.02	0.00
9440	9430	9440	45.00	0.01	0.00	0.00	0.13	0.01
9460	9400	9460	-928.92	0.19	0.00	0.00	1.17	0.50
9470	9460	9470	-934.69	0.14	0.00	0.00	1.18	0.50
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00
9490	9440	9490	10.39	0.00	0.00	0.00	0.07	0.01
9500	8930	9500	34.86	0.16	0.00	0.00	0.40	0.24



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9503	9500	9510	6.93	0.00	0.00	0.00	0.08	0.01
9505	9500	9505	15.91	0.04	0.00	0.00	0.18	0.06
9507	9175	9505	58.88	0.08	0.00	0.00	0.38	0.16
9510	8920	9510	37.23	0.04	0.00	0.00	0.24	0.07
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	25.36	0.09	0.00	0.00	0.29	0.13
9520	8910	9520	35.80	0.17	0.00	0.00	0.41	0.25
9525	9520	9525	14.50	0.03	0.00	0.00	0.16	0.05
9530	8900	9530	40.88	0.22	0.00	0.00	0.46	0.32
9535	9530	9535	20.35	0.06	0.00	0.00	0.23	0.09
9540	10130	9540	45.99	0.28	0.00	0.00	0.52	0.40
9545	9540	9545	26.86	0.10	0.00	0.00	0.30	0.15
9550	10150	9550	61.10	0.20	0.00	0.00	0.69	0.68
9555	9550	9555	61.10	0.27	0.00	0.00	0.69	0.68
9557	9555	9570	80.92	0.05	0.00	0.00	0.52	0.28
9560	9555	9560	-31.50	0.13	0.00	0.00	0.36	0.20
9565	10160	9565	248.59	0.68	0.00	0.00	1.59	2.26
9570	9565	9570	-107.20	0.19	0.00	0.00	0.68	0.47
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.34	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-26.28	0.01	0.00	0.00	0.17	0.04
9590	9590	9595	7.45	0.00	0.00	0.00	0.05	0.00
9600	9505	9600	70.46	0.04	0.00	0.00	0.45	0.22
9605	9600	9515	41.13	0.01	0.00	0.00	0.26	0.08
9610	9515	9605	54.28	0.13	0.00	0.00	0.62	0.55
9615	9605	9525	37.19	0.03	0.00	0.00	0.42	0.27
9620	9525	9610	44.96	0.08	0.00	0.00	0.51	0.39
9625	9610	9535	43.18	0.06	0.00	0.00	0.49	0.36
9630	9535	9545	50.87	0.19	0.00	0.00	0.58	0.48
9635	9545	9560	60.29	0.06	0.00	0.00	0.38	0.16
9640	9560	9640	26.15	0.01	0.00	0.00	0.17	0.03
9645	9640	9585	35.95	0.17	0.00	0.00	0.41	0.25
9650	9640	9650	-2.72	0.00	0.00	0.00	0.02	0.00
9655	9650	9590	13.80	0.01	0.00	0.00	0.09	0.01
9660	9595	9660	5.77	0.01	0.00	0.00	0.07	0.01
9665	9650	9670	-26.95	0.10	0.00	0.00	0.31	0.15
9670	9670	9675	3.17	0.00	0.00	0.00	0.04	0.00
9673	9670	9673	-34.21	0.01	0.00	0.00	0.22	0.06
9675	9680	9673	-21.32	0.00	0.00	0.00	0.14	0.02
9678	9673	9050	-55.53	0.09	0.00	0.00	0.35	0.14
9680	9640	9680	-27.71	0.10	0.00	0.00	0.31	0.16
9683	9680	9060	-27.26	0.09	0.00	0.00	0.31	0.15
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	46.70	0.06	0.00	0.00	0.30	0.10
9710	9700	9710	44.63	0.03	0.00	0.00	0.28	0.09
9720	9710	9720	44.63	0.04	0.00	0.00	0.28	0.09
9725	9720	9130	110.38	0.04	0.00	0.00	0.31	0.07
9730	9150	9730	74.89	0.01	0.00	0.00	0.21	0.03
9735	9730	9720	72.72	0.01	0.00	0.00	0.21	0.03
9740	9600	9740	29.34	0.02	0.00	0.00	0.19	0.04
9745	9740	9120	29.34	0.03	0.00	0.00	0.19	0.04
9750	9605	9750	10.64	0.01	0.00	0.00	0.12	0.03
9755	9750	9110	4.20	0.00	0.00	0.00	0.05	0.00
9760	9610	9760	-2.26	0.00	0.00	0.00	0.01	0.00
9765	9760	9100	-19.81	0.01	0.00	0.00	0.13	0.02
9770	9535	9770	-4.12	0.00	0.00	0.00	0.05	0.00
9775	9770	9090	-16.23	0.04	0.00	0.00	0.18	0.06
9780	9545	9780	-9.10	0.01	0.00	0.00	0.10	0.02
9785	9780	9080	-35.79	0.16	0.00	0.00	0.41	0.25
9790	9560	9790	-20.73	0.06	0.00	0.00	0.24	0.09
9795	9790	9070	-33.62	0.14	0.00	0.00	0.38	0.23
9800	9333	9800	161.31	0.15	0.00	0.00	1.03	1.01
9810	9800	9810	40.83	0.04	0.00	0.00	0.26	0.08
9815	9810	9337	35.49	0.01	0.00	0.00	0.23	0.06
9820	9800	9820	116.83	0.15	0.00	0.00	0.75	0.56
9830	9820	9830	39.92	0.03	0.00	0.00	0.25	0.08
9835	9830	9850	28.86	0.01	0.00	0.00	0.18	0.04
9840	9820	9840	67.30	0.05	0.00	0.00	0.43	0.20
9850	9840	9850	-17.80	0.01	0.00	0.00	0.11	0.02
9860	9840	9860	75.48	0.07	0.00	0.00	0.48	0.25
9870	7050	9870	69.42	0.12	0.00	0.00	0.44	0.21
9880	9870	9880	58.36	0.05	0.00	0.00	0.37	0.15
9890	9880	7055	47.30	0.06	0.00	0.00	0.30	0.10
9900	9140	9900	0.00	0.00	0.00	0.00	0.00	0.00
9910	9900	9910	0.00	0.00	0.00	0.00	0.00	0.00
9920	9910	9920	0.00	0.00	0.00	0.00	0.00	0.00
10003	10000	7700	920.48	0.32	0.00	0.00	1.47	0.87
10005	100	10000	1783.30	1.17	0.00	0.00	2.25	1.67
10010	10000	10010	869.17	0.29	0.00	0.00	1.10	0.44
10020	10010	10020	845.13	0.30	0.00	0.00	1.07	0.42
10023	10020	7710	142.01	0.28	0.00	0.00	0.91	0.80
10030	10020	10030	736.49	0.21	0.00	0.00	0.93	0.32
10033	10030	7715	52.20	0.04	0.00	0.00	0.33	0.13
10040	10030	10040	1122.11	0.48	0.00	0.00	1.41	0.71





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
10050	10040	10050	1071.55	0.24	0.00	0.00	1.35	0.65
10060	10050	10060	1040.39	0.22	0.00	0.00	1.31	0.62
10070	10060	10070	1001.06	0.20	0.00	0.00	1.26	0.57
10080	10070	10080	992.04	0.08	0.00	0.00	1.25	0.56
10090	10080	10090	1037.08	0.22	0.00	0.00	1.31	0.61
10100	10090	10100	752.12	0.13	0.00	0.00	0.95	0.34
10110	10100	10110	679.80	0.10	0.00	0.00	0.86	0.28
10115	10110	10115	614.97	0.02	0.00	0.00	0.78	0.23
10120	10115	10120	596.49	0.14	0.00	0.00	0.75	0.22
10130	10120	10130	722.55	0.06	0.00	0.00	0.91	0.31
10140	10130	10140	668.10	0.05	0.00	0.00	0.84	0.27
10150	10140	10150	671.68	0.05	0.00	0.00	0.85	0.27
10160	10150	10160	610.58	0.04	0.00	0.00	0.77	0.23
10170	10160	10170	334.01	0.03	0.00	0.00	0.42	0.08
10180	10170	10180	336.55	0.03	0.00	0.00	0.42	0.08
10185	10180	10185	347.87	0.01	0.00	0.00	0.44	0.08
10190	10185	10190	313.83	0.05	0.00	0.00	0.40	0.07
10195	10190	10195	202.96	0.02	0.00	0.00	0.26	0.03
10200	10195	10200	202.96	0.02	0.00	0.00	0.26	0.03
10210	10200	10210	154.46	0.01	0.00	0.00	0.19	0.02
10220	10210	7955	118.26	0.01	0.00	0.00	0.15	0.01
14100	4100	14100	37.44	0.02	0.00	0.00	0.24	0.07
14105	3080	14110	182.98	0.43	0.00	0.00	1.17	1.28
14110	14100	14110	27.82	0.02	0.00	0.00	0.18	0.04
14113	14110	14115	4.81	0.00	0.00	0.00	0.03	0.00
14115	14110	14130	191.57	0.38	0.00	0.00	1.22	1.39
14120	14120	4115	-17.64	0.01	0.00	0.00	0.11	0.02
14130	14120	14130	8.02	0.00	0.00	0.00	0.05	0.00
14133	14130	14135	4.81	0.00	0.00	0.00	0.03	0.00
14135	14130	14150	180.36	0.36	0.00	0.00	1.15	1.24
14140	4130	14140	36.61	0.01	0.00	0.00	0.23	0.06
14150	14150	14140	40.45	0.05	0.00	0.00	0.26	0.08
14155	14150	14170	133.90	0.19	0.00	0.00	0.85	0.72
14160	14140	14160	68.65	0.05	0.00	0.00	0.44	0.21
14170	14160	14170	55.43	0.09	0.00	0.00	0.35	0.14
14175	14170	4266	176.10	0.17	0.00	0.00	1.12	1.19
20000	0	20000	12504.38	0.26	0.00	0.00	5.68	5.12
20010	20000	20010	12504.38	0.26	0.00	0.00	5.68	5.12
20020	20010	20020	12504.38	0.26	0.00	0.00	5.68	5.12
20030	20020	20100	12504.38	0.38	0.00	0.00	5.68	5.12
20100	20100	20110	4158.35	0.27	0.00	1.17	8.67	27.25
20105	20100	20200	8346.03	0.04	0.00	0.08	3.79	2.42
20110	20110	20120	4158.35	0.69	133.04	5.40	11.80	57.73





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
20120	20120	20130	4158.35	0.58	0.00	3.24	11.80	57.73
20130	20130	20140	4158.35	0.69	0.00	1.08	11.80	57.73
20140	20140	20240	4158.35	0.21	0.00	0.34	6.64	14.22
20200	20200	20210	4167.85	0.27	0.00	1.17	8.69	27.37
20205	20200	20300	4178.19	0.01	0.00	0.02	1.90	0.67
20210	20210	20220	4167.85	0.70	132.78	5.43	11.82	57.97
20220	20220	20230	4167.85	0.58	0.00	3.26	11.82	57.97
20230	20230	20240	4167.85	0.70	0.00	1.09	11.82	57.97
20240	20240	20340	8326.20	0.11	0.00	0.27	5.90	7.14
20300	20300	20310	4178.19	0.27	0.00	1.18	8.71	27.49
20305	20300	20400	0.00	0.00	0.00	0.00	0.00	0.00
20310	20310	20320	4178.19	0.70	132.50	5.45	11.85	58.24
20320	20320	20330	4178.19	0.58	0.00	3.27	11.85	58.24
20330	20330	20340	4178.19	0.70	0.00	1.09	11.85	58.24
20340	20340	20440	12504.38	0.08	0.00	0.25	5.68	5.12
20400	20400	20410	0.00	0.00	0.00	0.00	0.00	0.00
20410	20410	20420						
20420	20420	20430	0	0	0	0	0	0
20430	20430	20440	0	0	0	0	0	0
20440	20440	20500	12504.38	1.28	0	0.25	5.68	5.12
20500	20500	5	12504.38	1.07	0	0	5.68	5.12
21000	5040	21000	-995.89	0.03	0	0	1.26	0.57
21010	21000	21010	-995.89	0	0	0.04	1.26	0.57
21020	21010	21020	-995.89	0	0	0.06	1.26	0.57
21030	21330	21020	995.89	0.01	0	0.01	1.26	0.57
21040	21100	21040	-995.89	0.03	0	0.01	1.26	0.57
21050	21040	21050	-995.89	0.03	0	0.01	1.26	0.57
21060	21020	21050						
21100	21100	21110	995.89	0.01	0	0.06	1.59	1.01
21105	21100	21200	0	0	0	0	0	0
21110	21110	21120	995.89	0.04	91.53	0.31	2.82	4.09
21120	21120	21130	995.89	0.02	0	0.13	2.08	1.93
21130	21130	21230	995.89	0.01	0	0.01	1.26	0.57
21200	21200	21210	0	0	0	0	0	0
21205	21200	21300	0	0	0	0	0	0
21210	21210	21220						
21220	21220	21230	0	0	0	0	0	0
21230	21230	21330	995.89	0.01	0	0	1.26	0.57
21400	21050	0	-995.89	0.01	0	0.03	1.26	0.57
23000	6000	23000	271.83	0.04	0	0	0.34	0.05
23010	23000	23010	271.02	0.03	0	0	0.34	0.05
23020	23010	23020	2.4	0	0	0	0	0
23030	23020	23030	2.4	0	0	0	0	0



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
23040	23030	23040	2.4	0	0	0	0	0
23050	23010	23050	268.61	0.04	0	0	0.34	0.05
23060	23050	23060	268.61	0.03	0	0	0.34	0.05
23070	23060	23070	163.63	0.02	0	0	0.21	0.02
23080	23070	23100	110.69	0	0	0	0.14	0.01
23100	23120	5295	23.81	0	0	0	0.1	0.01
23110	23100	23110	110.69	0.1	0	0	0.45	0.17
23120	23110	23120	28.95	0.01	0	0	0.12	0.01
23200	5297	23200	-49.22	0.01	0	0	0.14	0.02
23210	23200	23210	-49.22	0.01	0	0	0.14	0.02
23220	23210	23220	-49.22	0.01	0	0	0.14	0.02
23230	23220	23070	-49.22	0	0	0	0.14	0.02
23235	23070	23230	-6.37	0	0	0	0.02	0
23240	23230	23240	-16.47	0	0	0	0.05	0
23400	5265	23400	-76.49	0.01	0	0	0.22	0.04
23410	23400	23410	-76.49	0.01	0	0	0.22	0.04
23420	23410	23420	-76.49	0.01	0	0	0.22	0.04
23430	23420	23060	-76.49	0.01	0	0	0.22	0.04
23445	23240	23540	-28.49	0	0	0	0.08	0.01
23500	23060	23500	28.49	0	0	0	0.08	0.01
23510	23500	23510	28.49	0	0	0	0.08	0.01
23520	23510	23520	28.49	0	0	0	0.08	0.01
23530	23520	23530	28.49	0	0	0	0.08	0.01
23540	23530	23540	28.49	0	0	0	0.08	0.01
23550	23540	23550	0	0	0	0	0	0
24000	10	24000	495.22	43.29	0	0	3.16	8.08
40060	2230	40060	1847.13	0.15	0	0	1.03	0.25
40070	40060	40070	1847.13	0.1	0	0	1.03	0.25
40080	40070	40080	1847.13	0.05	0	0	1.03	0.25
40090	40080	3040	1847.13	0.29	0	0	1.03	0.25
60000	5	210	2844.84	0.85	0	0	2.02	0.7
60005	210	220	2886.45	1	0	0	2.05	0.72
60010	220	230	2131.35	2.47	0	0	2.69	1.66



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-5

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	205.90	67.5	138.40	59.97
10		0.00	205.48	67.5	137.98	59.79
15		0.00	203.13	66.5	136.63	59.21
20		0.00	200.94	66.5	134.44	58.26
30		0.00	199.00	64.0	135.00	58.50
40		0.00	198.45	62.5	135.95	58.91
50		7.45	198.18	61.0	137.18	59.44
60		9.14	196.80	60.5	136.30	59.06
70		9.14	195.79	60.0	135.79	58.84
80		0.77	194.42	58.0	136.42	59.11
90		8.75	193.84	57.5	136.34	59.08
100		13.32	193.57	57.0	136.57	59.18
210		0.00	205.05	68.5	136.55	59.17
220		0.00	204.06	68.5	135.00	58.76
230		0.00	201.59	67.0	134.59	58.32
240		0.00	199.36	66.0	133.36	57.79
250		0.00	196.93	64.5	132.43	57.39
260		99.24	195.26	64.0	131.26	56.88
270		14.42	194.83	63.0	131.83	57.13
280		0.00	194.58	62.5	132.08	57.23
300		29.09	194.14	62.0	132.14	57.26
305		17.02	193.62	61.0	132.62	57.47
310		17.69	193.40	60.5	132.90	57.59
315		19.23	193.19	60.0	133.19	57.71
320		24.52	193.26	59.5	133.76	57.96
325		33.90	193.42	58.5	134.92	58.47
330		22.21	193.59	58.0	135.59	58.75
335		8.75	193.65	57.8	135.85	58.87
400		15.10	192.78	59.5	133.28	57.75
405		15.05	192.38	59.0	133.38	57.80
410		15.05	192.00	59.0	133.00	57.63
415		24.23	191.78	58.5	133.28	57.75
420		15.05	191.37	58.0	133.37	57.79
425		29.38	190.90	57.5	133.40	57.81
430		0.00	190.67	57.5	133.17	57.71
435		13.51	190.45	57.0	133.45	57.83
440		6.78	190.12	56.0	134.12	58.12
445		3.85	190.00	55.8	134.20	58.15
450		26.68	189.92	55.8	134.12	58.12
455		26.44	189.47	55.6	133.87	58.01
457		14.57	189.45	55.2	134.25	58.18
459		25.92	189.42	53.8	135.62	58.77
460	9TH & BROA	0.00	189.41	53.5	135.91	58.90





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	25.00	189.36	52.7	136.66	59.22
470		8.22	189.49	52.5	136.99	59.36
475		2.84	189.60	52.8	136.80	59.28
480		1.78	189.70	53.3	136.40	59.11
485		13.99	189.79	53.5	136.29	59.06
490		38.56	190.28	53.8	136.48	59.14
495		32.89	190.89	54.0	136.89	59.32
500		19.66	191.50	54.8	136.70	59.24
505		28.66	192.03	55.7	136.33	59.08
510		23.13	192.70	56.4	136.30	59.06
600		13.51	189.26	55.5	133.76	57.96
605		23.80	189.08	55.3	133.78	57.97
610		48.85	188.63	55.0	133.63	57.91
615		15.05	188.28	54.0	134.28	58.19
620		16.20	188.01	53.0	135.01	58.50
625		11.25	187.93	52.0	135.93	58.90
630		3.37	187.88	51.8	136.08	58.97
635		3.37	187.81	51.7	136.11	58.98
640		4.81	187.78	51.5	136.28	59.06
645		82.36	187.71	51.5	136.21	59.02
650		0.00	187.64	51.4	136.24	59.04
655		19.28	187.54	51.3	136.24	59.04
660		17.45	187.47	51.0	136.47	59.14
700		31.01	188.99	52.5	136.49	59.14
705		13.65	188.54	52.2	136.34	59.08
710		16.88	187.90	51.7	136.20	59.02
715		13.94	187.77	51.4	136.37	59.09
720		37.79	187.53	51.2	136.33	59.08
725		20.24	187.44	50.8	136.64	59.21
730		33.42	187.30	50.6	136.70	59.24
735		37.60	187.24	50.4	136.84	59.30
740		34.76	187.19	50.2	136.99	59.36
745		17.45	187.14	50.2	136.94	59.34
750		0.00	187.11	49.8	137.31	59.50
800		13.61	192.50	60.5	132.00	57.20
810		25.05	192.26	61.8	130.46	56.53
820		14.42	192.16	63.0	129.16	55.97
830		14.42	192.10	63.4	128.70	55.77
840		8.41	191.99	63.6	128.39	55.63
850		0.00	191.74	63.0	128.74	55.79
860		13.70	192.01	63.6	128.41	55.64
870		4.81	192.60	60.7	131.90	57.16
880		12.84	192.99	60.0	132.99	57.63



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		12.84	193.46	59.7	133.76	57.96
900		15.05	191.39	59.0	132.39	57.37
910		49.43	191.42	59.8	131.62	57.04
920		36.59	191.41	60.3	131.11	56.81
935		5.39	191.40	61.7	129.70	56.20
940		5.39	191.37	62.0	129.37	56.06
950		11.44	191.34	62.5	128.84	55.83
960		12.40	191.29	63.0	128.29	55.59
970		17.65	191.28	63.5	127.78	55.37
980		5.29	191.28	63.5	127.78	55.37
1000		29.76	195.26	63.0	132.26	57.31
1010		31.54	195.30	62.0	133.30	57.76
1015		14.57	196.20	61.6	134.60	58.33
1030		4.81	195.42	64.2	131.22	56.86
1040		16.92	195.32	64.0	131.32	56.91
1050		16.35	195.23	63.0	132.23	57.30
1060		20.34	195.23	62.9	132.33	57.34
1070		21.40	195.45	62.4	133.05	57.66
1080		19.52	196.24	62.0	134.24	58.17
1090		14.57	196.21	62.0	134.21	58.16
1100		9.33	195.25	63.0	132.25	57.31
1110		13.46	195.25	62.6	132.65	57.48
1150		17.55	195.17	64.2	130.97	56.75
1155		13.13	195.17	63.8	131.37	56.93
1160		16.97	195.17	63.5	131.67	57.06
1170		9.33	195.12	64.3	130.82	56.69
1175		4.95	195.12	64.0	131.12	56.82
1180		4.95	195.12	63.8	131.32	56.90
1185		8.75	195.14	63.6	131.54	57.00
1200		17.07	195.19	63.0	132.19	57.28
1205		13.08	195.14	63.6	131.54	57.00
1210		18.17	195.22	62.8	132.42	57.38
1220		14.18	195.14	63.8	131.34	56.91
1225		9.23	195.14	63.5	131.64	57.04
1240		9.86	195.12	64.3	130.82	56.69
1245		9.86	195.11	64.0	131.11	56.82
1250		9.86	195.11	63.8	131.31	56.90
1255		9.86	195.14	63.6	131.54	57.00
1260		8.41	195.14	63.5	131.64	57.04
1265		11.64	195.13	63.4	131.73	57.08
1270		11.64	195.13	63.3	131.83	57.13
1275		37.65	196.03	63.5	132.53	57.43
1300		22.36	194.61	62.3	132.31	57.34



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		30.48	194.97	61.5	133.47	57.83
1310		0.00	194.57	62.0	132.57	57.45
1315		18.27	194.47	63.0	131.47	56.97
1320		26.40	194.45	61.2	133.25	57.74
1325		9.14	194.14	61.1	133.04	57.65
1330		15.34	194.16	61.0	133.16	57.70
1335		30.19	194.24	60.9	133.34	57.78
1350		17.50	194.48	60.8	133.68	57.93
1360		163.47	186.48	60.8	125.68	54.46
1365		163.47	184.19	61.2	122.99	53.30
1370		163.47	185.34	60.6	124.74	54.05
1400		17.79	193.71	60.2	133.51	57.85
1403		13.70	193.48	59.8	133.68	57.93
1405		18.51	193.96	60.7	133.26	57.74
1420		9.62	193.73	59.8	133.93	58.04
1425		15.39	193.81	59.5	134.31	58.20
1430		10.10	193.86	59.2	134.66	58.35
1435		27.89	194.11	60.0	134.11	58.11
1440		13.46	194.15	60.0	134.15	58.13
1445		9.14	193.73	59.4	134.33	58.21
1450		6.73	193.81	59.1	134.71	58.37
1455		9.62	193.50	59.0	134.50	58.28
1460		13.94	193.57	59.0	134.57	58.31
1465		6.73	193.64	58.7	134.94	58.48
1470		9.14	193.47	58.5	134.97	58.49
1475		0.00	193.59	58.0	135.59	58.76
1540		34.38	193.88	58.8	135.08	58.54
1600		8.80	192.66	59.2	133.46	57.83
1605		17.45	192.46	58.3	134.16	58.14
1610		9.18	192.04	57.2	134.84	58.43
1615		8.65	192.20	57.4	134.80	58.41
1620		0.00	192.05	56.8	135.25	58.61
1625		22.12	192.22	56.8	135.42	58.68
1630		22.12	192.62	57.5	135.12	58.55
1635		15.53	193.18	58.2	134.98	58.49
1640		7.21	192.05	56.5	135.55	58.74
1645		13.46	192.24	56.8	135.44	58.69
1647		6.92	192.56	56.8	135.76	58.83
1650		13.46	192.73	57.2	135.53	58.73
1653		6.78	193.15	57.5	135.65	58.78
1655		6.73	193.29	57.8	135.49	58.71
1700		30.19	190.93	56.0	134.93	58.47
1702		59.67	191.19	56.3	134.89	58.45



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		14.47	191.80	56.0	135.80	58.85
1750		35.58	190.20	56.0	134.20	58.15
1755		35.96	190.17	54.7	135.47	58.71
1770		12.12	189.91	55.4	134.51	58.29
1775		21.16	189.67	54.3	135.37	58.66
1780		17.45	189.67	54.0	135.67	58.79
1790		3.85	189.92	55.0	134.92	58.47
1800		46.16	189.49	53.8	135.69	58.80
1805		45.29	189.60	53.4	136.20	59.02
1880		1.30	189.08	55.0	134.08	58.10
1900		27.89	188.32	53.6	134.72	58.38
1905		13.13	188.04	53.0	135.04	58.52
1910		15.15	187.81	52.5	135.31	58.63
1915		11.54	187.70	51.8	135.90	58.89
1920		21.30	187.57	51.5	136.07	58.97
1925		11.30	187.54	51.5	136.04	58.95
1930		10.00	187.54	51.5	136.04	58.95
1935		22.74	188.97	53.0	135.97	58.92
1940		36.78	188.46	52.8	135.66	58.79
1945		11.06	188.25	52.8	135.45	58.70
1950		23.80	187.90	52.5	135.40	58.67
1955		29.57	187.71	52.0	135.71	58.81
1960		24.76	187.59	51.5	136.09	58.97
1965		35.72	187.53	51.3	136.23	59.03
1970		29.28	187.53	51.2	136.33	59.08
1975		16.54	188.97	52.7	136.27	59.05
1980		27.02	188.46	52.4	136.06	58.96
1982		4.23	187.88	52.2	135.68	58.80
1985		10.10	187.88	52.2	135.68	58.80
1990		19.66	187.82	52.0	135.82	58.86
1995		24.28	187.62	51.5	136.12	58.99
2000		12.60	187.55	51.0	136.55	59.17
2005		17.45	187.36	51.0	136.36	59.09
2010		17.45	187.32	51.0	136.32	59.07
2015		17.45	187.29	51.0	136.29	59.06
2020		17.45	187.25	51.0	136.25	59.04
2200		0.00	200.09	67.5	132.59	57.46
2210		0.00	198.39	67.5	130.89	56.72
2220		0.00	197.53	67.5	130.03	56.35
2230		0.00	196.55	67.5	129.05	55.92
2300		9.38	197.48	67.5	129.98	56.33
2310		6.49	197.48	67.5	129.98	56.33
2320		2.88	197.48	67.5	129.98	56.33





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		9.38	197.46	67.5	129.96	56.32
2340		6.49	197.46	67.4	130.11	56.38
2350		2.88	197.46	67.5	129.96	56.32
2360		14.18	197.45	67.5	129.95	56.31
2370		6.49	197.45	67.5	129.95	56.31
2380		2.88	197.45	67.0	130.45	56.53
2400		0.00	201.87	65.0	136.87	59.31
2410		0.00	202.23	65.0	137.23	59.47
2420		0.00	202.55	65.5	137.05	59.39
2430		14.42	202.55	65.5	137.05	59.39
2440		14.42	202.75	66.0	136.75	59.26
2450		14.42	202.74	66.0	136.74	59.25
2460		14.42	202.73	66.0	136.73	59.25
2470		14.42	202.73	66.0	136.73	59.25
3000		16.01	194.04	62.7	131.34	56.91
3005		10.96	194.02	63.0	131.02	56.78
3010		18.51	194.00	63.8	130.20	56.42
3015		11.40	194.00	64.1	129.90	56.29
3020		16.20	194.01	65.1	128.91	55.86
3025		4.81	194.10	66.0	128.10	55.51
3030		17.36	195.17	66.2	128.97	55.89
3035		0.00	195.67	66.6	129.07	55.93
3040		0.00	196.08	66.8	129.28	56.02
3045		8.17	195.75	67.0	128.75	55.79
3050		0.00	195.61	67.3	128.31	55.60
3055	23RD & OCO	17.31	195.50	67.5	128.00	55.47
3060		12.93	195.46	68.0	127.46	55.23
3065		7.21	193.98	66.6	127.38	55.20
3070		19.23	193.89	66.5	127.39	55.20
3075		9.62	193.75	67.0	126.75	54.92
3080		0.00	193.70	67.0	126.70	54.90
3100		0.00	194.26	63.0	131.26	56.88
3105		0.77	194.26	63.0	131.26	56.88
3110		3.85	194.27	63.5	130.77	56.67
3115		5.77	194.41	64.0	130.41	56.51
3130		25.24	194.44	64.5	129.94	56.31
3140		13.94	194.31	65.1	129.21	55.99
3145		13.94	194.27	65.3	128.97	55.89
3147		14.42	194.26	65.5	128.76	55.80
3150		25.24	194.30	65.5	128.80	55.81
3200		10.00	194.17	66.0	128.17	55.54
3205		25.58	194.28	66.4	127.88	55.41
3210		0.00	194.28	66.5	127.78	55.37



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		20.91	194.28	67.0	127.28	55.15
3220		5.72	194.28	67.2	127.08	55.07
3225		18.17	194.19	65.9	128.29	55.59
3230		27.79	194.29	66.3	127.99	55.46
3235		20.91	194.29	66.8	127.49	55.25
3240		5.72	194.29	67.0	127.29	55.16
3245		15.34	194.20	65.0	129.20	55.99
3247		9.52	194.19	65.3	128.89	55.85
3250		27.41	194.31	65.9	128.41	55.65
3252		24.71	194.31	66.1	128.21	55.56
3255		22.79	194.50	66.6	127.90	55.42
3257		20.91	194.34	66.7	127.64	55.31
3259		5.72	194.33	66.9	127.43	55.22
3260		15.77	194.02	63.5	130.52	56.56
3262		4.23	194.02	63.4	130.62	56.60
3265		15.77	194.06	64.2	129.86	56.27
3267		4.23	194.06	64.1	129.96	56.32
3270		15.39	194.13	64.4	129.73	56.22
3275		15.77	194.10	64.6	129.50	56.12
3277		4.23	194.10	64.5	129.60	56.16
3280		11.54	194.22	65.5	128.72	55.78
3285		11.54	194.16	65.1	129.06	55.93
3290		40.58	194.04	64.8	129.24	56.00
3295		31.25	194.01	64.3	129.71	56.21
3300		19.71	194.03	65.9	128.13	55.52
3305		12.84	194.08	66.2	127.88	55.41
3310		6.25	194.07	66.3	127.77	55.37
3315		12.84	194.17	66.3	127.87	55.41
3320		6.25	194.17	66.4	127.77	55.37
3325		12.84	194.30	66.4	127.90	55.42
3330		6.25	194.30	66.5	127.80	55.38
3400		8.41	193.56	64.9	128.66	55.75
3405		4.81	193.56	65.0	128.56	55.71
3410		12.02	193.19	64.4	128.79	55.81
3415		4.81	193.19	64.5	128.69	55.77
3420		8.41	192.76	63.9	128.86	55.84
3425		4.81	192.76	64.0	128.76	55.79
3430		8.41	192.41	63.7	128.71	55.77
3435		4.81	192.41	63.8	128.61	55.73
3440		14.42	192.26	63.1	129.16	55.97
3450		25.05	192.55	62.2	130.35	56.48
3460		13.61	192.85	61.0	131.85	57.14
3470		13.61	193.16	61.3	131.86	57.14



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		25.05	193.03	62.5	130.53	56.56
3490		13.85	193.11	63.5	129.61	56.17
3500		16.25	193.20	64.0	129.20	55.99
3510		15.77	193.29	63.0	130.29	56.46
3520		21.06	193.55	62.0	131.55	57.01
3530		19.71	193.58	62.3	131.28	56.89
3540		27.07	193.47	63.3	130.17	56.41
3550		14.42	193.25	64.2	129.05	55.92
3600		15.05	192.21	60.2	132.01	57.21
3605		19.23	192.10	61.1	131.00	56.77
3610		15.05	191.93	59.9	132.03	57.21
3615		15.05	191.89	60.6	131.29	56.89
3620		15.05	191.70	59.5	132.20	57.29
3625		15.05	191.67	60.1	131.57	57.01
3630		15.05	190.80	58.7	132.10	57.24
3635		36.73	190.78	59.3	131.48	56.97
3640		0.00	190.67	58.3	132.37	57.36
3643		0.00	190.66	58.9	131.76	57.10
3645		5.48	190.66	59.0	131.66	57.05
3650		6.20	190.12	56.3	133.82	57.99
3660		0.00	190.66	58.3	132.36	57.36
3665		34.52	190.45	58.5	131.95	57.18
3670		0.00	190.66	58.3	132.36	57.36
3675		0.00	190.37	58.3	132.07	57.23
3680		0.00	190.66	58.0	132.66	57.49
3685		10.63	190.56	60.0	130.56	56.58
3690		0.00	190.66	57.8	132.86	57.57
3695		27.26	190.46	59.7	130.76	56.66
3697		26.97	190.45	59.2	131.25	56.88
3698		0.00	190.45	59.2	131.25	56.87
4000		21.44	195.32	67.2	128.12	55.52
4010		18.41	194.84	67.0	127.84	55.40
4020		18.41	194.52	67.0	127.52	55.26
4030		22.12	194.77	67.3	127.47	55.24
4040		12.69	195.08	67.3	127.78	55.37
4050		9.18	195.32	67.3	128.02	55.48
4060		14.28	195.33	67.4	127.93	55.44
4070		26.49	195.35	67.2	128.15	55.53
4080		9.62	195.41	67.2	128.21	55.56
4100		9.62	193.31	66.5	126.81	54.95
4105		22.45	193.33	66.1	127.23	55.13
4110		12.84	193.38	66.0	127.38	55.20
4115		9.62	192.89	66.0	126.89	54.99





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		22.45	192.90	65.8	127.10	55.08
4125		12.84	192.93	65.0	127.93	55.44
4130		4.81	192.48	65.8	126.68	54.90
4135		17.79	192.50	65.5	127.00	55.03
4140		11.54	192.52	65.3	127.22	55.13
4145		11.54	192.56	65.0	127.56	55.27
4150		6.73	192.51	65.0	127.51	55.26
4155		6.73	192.55	64.6	127.95	55.45
4200		10.72	191.74	63.8	127.94	55.44
4205		10.72	191.55	63.2	128.35	55.62
4210		10.72	191.44	61.9	129.54	56.13
4220		13.70	191.97	64.0	127.97	55.45
4225		35.58	191.96	64.3	127.66	55.32
4230		10.72	191.73	63.5	128.23	55.56
4235		22.89	191.72	63.8	127.92	55.43
4240		10.72	191.54	63.0	128.54	55.70
4245		22.89	191.54	63.5	128.04	55.48
4250		10.72	191.42	62.7	128.72	55.78
4255		22.84	191.41	63.0	128.41	55.64
4260		13.70	191.95	64.5	127.45	55.23
4265		18.99	191.96	64.8	127.16	55.10
4266		0.00	192.16	65.0	127.16	55.10
4267		5.29	191.96	65.0	126.96	55.01
4270		12.16	191.72	64.0	127.72	55.34
4275		17.45	191.72	64.3	127.42	55.21
4278		5.29	191.72	64.6	127.12	55.08
4280		12.16	191.54	63.6	127.94	55.44
4285		12.16	191.54	63.6	127.94	55.44
4290		12.12	191.40	62.5	128.90	55.86
4295		12.12	191.40	62.5	128.90	55.86
4300		12.74	191.10	62.0	129.10	55.95
4310		12.74	190.97	61.3	129.67	56.19
4320		12.74	190.88	60.5	130.38	56.50
4330		12.74	190.81	60.3	130.51	56.55
4340		18.03	191.10	62.3	128.80	55.81
4350		18.03	190.97	61.6	129.37	56.06
4360		12.74	190.88	61.2	129.68	56.19
4370		12.74	190.81	60.6	130.21	56.42
4380		5.29	191.10	62.5	128.60	55.73
4390		5.29	190.97	61.9	129.07	55.93
4400		8.89	190.77	60.0	130.77	56.67
4410		18.03	190.77	60.0	130.77	56.67
4420		9.14	190.82	60.0	130.82	56.69



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		7.21	190.82	60.0	130.82	56.69
4500		30.43	190.09	57.0	133.09	57.67
4510		52.31	190.28	58.0	132.28	57.32
4520		95.29	190.43	59.0	131.43	56.95
4530		13.70	190.59	59.4	131.19	56.85
4540		7.50	190.75	60.3	130.45	56.53
4550		16.40	190.76	60.5	130.26	56.44
4560		7.50	190.76	60.8	129.96	56.31
4570		4.23	190.76	60.0	130.76	56.66
4580	MAIN BTW L	4.23	190.76	60.0	130.76	56.66
4590		4.23	190.76	61.4	129.36	56.06
4600		19.71	189.53	56.3	133.23	57.73
4610		0.00	189.90	57.0	132.90	57.59
4620		0.00	190.26	58.2	132.06	57.23
4700		4.04	188.67	55.2	133.47	57.84
4710		38.94	188.71	55.8	132.91	57.59
4720		34.71	188.99	56.3	132.69	57.50
4730		0.00	189.07	56.8	132.27	57.32
4740		36.11	189.38	57.0	132.38	57.37
4750		9.62	189.51	57.0	132.51	57.42
4800		86.11	188.00	53.2	134.80	58.41
4810		18.03	188.36	54.2	134.16	58.14
4820		0.00	188.70	54.6	134.10	58.11
4830		0.00	189.03	55.2	133.83	57.99
4840		0.00	189.23	56.5	132.73	57.52
4850		0.38	188.36	55.3	133.06	57.66
4870		101.45	187.52	55.0	132.52	57.42
4880		0.00	189.06	56.0	133.06	57.66
4900		70.73	187.88	51.8	136.08	58.97
4910		10.67	187.87	51.7	136.17	59.00
4920		0.00	187.86	51.6	136.26	59.05
4930		1.54	187.80	51.5	136.30	59.06
4940		85.10	187.80	51.3	136.50	59.15
4947		22.60	187.81	51.6	136.21	59.02
4950		2.40	187.88	51.8	136.08	58.97
4955		22.60	187.96	51.9	136.06	58.96
4960		2.40	187.91	52.7	135.21	58.59
4965		7.21	187.92	52.7	135.22	58.59
4970		0.00	187.94	53.7	134.24	58.17
4975		28.37	187.98	54.0	133.98	58.06
4977		10.58	188.02	52.6	135.42	58.68
4980		10.58	188.06	52.3	135.76	58.83
4985		10.58	188.13	52.7	135.43	58.69



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	48.27	188.27	53.0	135.27	58.62
4995		0.00	188.05	52.1	135.95	58.91
5000		23.13	191.41	61.7	129.71	56.21
5010		0.00	191.17	61.0	130.17	56.41
5020		0.00	190.95	60.3	130.65	56.61
5030		12.26	190.75	59.8	130.95	56.75
5040		0.00	190.65	58.8	131.85	57.13
5050		0.00	189.90	58.2	131.70	57.07
5060		0.00	189.49	57.4	132.09	57.24
5070		0.00	188.94	55.7	133.24	57.74
5080		0.00	188.53	54.5	134.03	58.08
5090		0.00	188.42	52.2	136.22	59.03
5100		0.00	187.90	53.5	134.40	58.24
5110		11.73	187.94	53.5	134.44	58.26
5120		16.35	187.97	54.0	133.97	58.05
5130		16.35	187.99	55.9	132.09	57.24
5140		25.96	188.02	55.0	133.02	57.64
5150		10.58	188.13	54.5	133.63	57.91
5160		14.52	188.01	54.1	133.91	58.03
5170		10.58	188.07	53.0	135.07	58.53
5180		12.02	187.92	53.0	134.92	58.46
5190		9.62	187.81	51.7	136.11	58.98
5200		7.84	188.05	52.1	135.95	58.91
5205		7.84	188.06	51.8	136.26	59.05
5210		15.72	188.06	51.6	136.46	59.13
5215		7.84	188.10	51.4	136.70	59.24
5220		7.84	188.13	51.1	137.03	59.38
5230		8.32	188.15	51.3	136.85	59.30
5235		96.88	188.20	51.9	136.30	59.06
5240		5.91	188.05	52.3	135.75	58.83
5250		12.02	188.06	51.9	136.16	59.00
5255		11.78	188.05	51.8	136.25	59.04
5260		23.56	188.06	51.4	136.66	59.22
5265		11.78	188.13	51.0	137.13	59.42
5270		2.21	187.98	51.3	136.68	59.23
5277		0.00	187.98	51.5	136.48	59.14
5279		25.82	187.83	51.0	136.83	59.29
5280		84.04	187.81	51.0	136.81	59.29
5290		0.00	187.92	50.1	137.82	59.72
5292		0.00	188.13	50.8	137.33	59.51
5295		5.72	188.04	50.1	137.94	59.78
5297		0.00	188.14	52.8	135.34	58.65
5500		7.50	190.73	60.0	130.73	56.65



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		7.50	190.74	60.3	130.44	56.52
5520		7.50	190.74	60.6	130.14	56.39
5530		7.50	190.71	58.7	132.01	57.21
5540		7.50	190.73	59.0	131.73	57.08
5550		7.50	190.73	59.0	131.73	57.08
6000		0.00	188.32	52.2	136.12	58.98
7000		14.42	198.48	62.0	136.48	59.14
7005		14.42	198.07	61.4	136.67	59.22
7010		40.72	197.69	60.8	136.89	59.32
7015		28.85	197.09	60.3	136.79	59.27
7020		21.49	196.70	59.5	137.20	59.45
7025		9.14	196.37	62.3	134.07	58.10
7030		21.54	196.26	62.0	134.26	58.18
7035		36.25	195.36	60.5	134.86	58.44
7040	AURORA BTW	1.54	194.85	59.0	135.85	58.87
7045		0.00	194.28	58.5	135.78	58.84
7050		17.02	194.02	57.8	136.22	59.03
7055		17.02	193.80	57.5	136.30	59.06
7060		0.00	193.31	56.0	137.31	59.50
7070		0.00	193.33	57.0	136.33	59.08
7080		3.13	192.97	57.5	135.47	58.70
7100		15.39	198.24	63.0	135.24	58.61
7110		11.54	197.27	61.0	136.27	59.05
7120		18.27	197.09	60.5	136.59	59.19
7130		19.23	196.98	59.5	137.48	59.57
7140		11.54	197.19	62.0	135.19	58.58
7150		18.27	197.09	60.8	136.29	59.06
7160		19.23	197.06	59.1	137.96	59.78
7200		12.21	197.07	62.5	134.57	58.31
7210		11.40	197.30	62.5	134.80	58.41
7300		3.22	196.75	62.0	134.75	58.39
7310		9.62	197.76	62.0	135.76	58.83
7320		9.62	197.67	61.6	136.07	58.97
7330		8.03	197.18	62.0	135.18	58.58
7340		8.03	196.42	61.0	135.42	58.68
7350		9.62	196.12	60.2	135.92	58.90
7360		12.12	196.06	59.5	136.56	59.17
7370		9.62	195.35	60.4	134.95	58.48
7380		12.12	195.31	59.5	135.81	58.85
7390		2.93	194.35	60.0	134.35	58.22
7400		18.75	195.27	60.9	134.37	58.23
7405		18.75	194.86	62.0	132.86	57.57
7410		34.14	194.62	61.0	133.62	57.90





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		20.39	194.45	59.5	134.95	58.48
7420		23.56	194.35	60.2	134.15	58.13
7425		10.39	194.29	60.6	133.69	57.93
7430		18.75	194.35	60.7	133.65	57.91
7435		18.75	194.12	61.5	132.62	57.47
7440		31.06	194.01	61.0	133.01	57.64
7445		23.08	193.95	59.7	134.25	58.18
7450		14.14	194.27	59.5	134.77	58.40
7455		18.75	193.79	60.5	133.29	57.76
7460		18.75	193.60	61.2	132.40	57.37
7465		30.48	193.52	60.5	133.02	57.64
7470		22.98	193.46	59.5	133.96	58.05
7475		0.58	192.85	58.0	134.85	58.44
7480		21.40	193.45	60.3	133.15	57.70
7485		18.75	193.25	61.0	132.25	57.31
7490		38.70	193.16	60.0	133.16	57.70
7495		31.97	193.01	59.3	133.71	57.94
7500		16.83	192.85	57.9	134.95	58.48
7505		6.73	193.49	60.0	133.49	57.85
7510		13.46	193.19	60.0	133.19	57.72
7515		13.46	193.16	59.4	133.76	57.96
7520		13.46	193.00	58.4	134.60	58.33
7525		9.33	192.93	57.5	135.43	58.69
7530		6.73	193.05	59.0	134.05	58.09
7535		13.46	192.93	58.5	134.43	58.26
7540		13.46	192.82	57.8	135.02	58.51
7545		6.73	192.78	57.3	135.48	58.71
7550		13.46	193.49	59.2	134.29	58.19
7555		13.46	193.03	58.8	134.23	58.17
7560		13.46	192.87	58.3	134.57	58.31
7565		26.92	192.67	57.7	134.97	58.49
7570		26.92	192.52	57.1	135.42	58.68
7573		13.46	193.60	56.4	137.20	59.45
7575		13.46	192.49	56.4	136.09	58.97
7577		13.46	192.87	58.0	134.87	58.44
7580		0.00	194.10	58.2	135.90	58.89
7585		13.46	192.65	57.5	135.15	58.57
7590		25.48	192.54	56.9	135.64	58.78
7595		25.48	192.26	56.3	135.96	58.92
7600		12.74	192.20	55.6	136.60	59.19
7605		10.24	194.10	57.3	136.80	59.28
7610		12.02	192.41	56.6	135.81	58.85
7615		24.04	192.16	56.2	135.96	58.92



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		24.38	192.01	55.7	136.31	59.07
7625		12.36	191.92	55.1	136.82	59.29
7700		24.04	192.09	55.9	136.19	59.01
7705		22.93	191.69	55.0	136.69	59.23
7710		22.69	191.54	54.0	137.54	59.60
7715		12.02	191.56	53.8	137.76	59.69
7720		34.76	191.78	55.0	136.78	59.27
7725		25.63	191.33	54.1	137.23	59.47
7730		20.34	191.16	53.7	137.46	59.56
7735		10.48	191.12	53.5	137.62	59.64
7740		20.05	191.51	54.4	137.11	59.41
7745		19.52	191.30	53.7	137.60	59.62
7750		26.73	190.79	53.6	137.19	59.45
7755		20.91	190.54	53.5	137.04	59.39
7760		32.60	190.85	53.9	136.95	59.34
7765		34.91	190.43	53.6	136.83	59.29
7770		34.38	190.35	53.5	136.85	59.30
7775		15.15	190.36	53.2	137.16	59.44
7780		32.31	190.27	53.6	136.67	59.22
7785		37.21	189.97	53.5	136.47	59.14
7790		36.54	189.94	53.4	136.54	59.17
7795		12.98	189.79	53.0	136.79	59.27
7800		5.63	189.87	53.4	136.47	59.14
7805		1.92	190.07	53.4	136.67	59.22
7810		1.92	189.92	53.3	136.62	59.20
7815		2.40	189.87	53.3	136.57	59.18
7820		6.25	189.74	53.1	136.64	59.21
7825		3.85	189.58	50.8	138.78	60.14
7830		9.62	189.38	52.7	136.68	59.23
7835		3.13	189.41	52.8	136.61	59.20
7840		7.21	189.46	52.6	136.86	59.30
7845		5.53	189.48	52.2	137.28	59.49
7850		8.85	188.77	52.1	136.67	59.22
7855		5.00	188.68	52.2	136.48	59.14
7860		4.81	188.66	51.9	136.76	59.26
7865		4.81	189.03	52.0	137.03	59.38
7870		8.08	189.03	51.8	137.23	59.46
7875		91.35	187.80	52.0	135.80	58.85
7880		0.00	188.04	52.0	136.04	58.95
7885		91.35	187.52	52.0	135.52	58.72
7890		91.35	186.53	52.0	134.53	58.30
7895		2.40	187.19	52.0	135.19	58.58
7900		22.89	189.70	53.3	136.40	59.11



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		20.00	189.66	53.3	136.36	59.09
7910		19.09	189.63	53.2	136.43	59.12
7915		3.89	189.58	52.8	136.78	59.27
7917		0.00	189.58	52.5	137.08	59.40
7920		9.86	189.56	52.9	136.66	59.22
7925		9.62	189.54	53.0	136.54	59.17
7930		9.62	189.52	52.8	136.72	59.25
7935		7.21	189.51	52.4	137.11	59.42
7937		0.53	189.48	52.1	137.38	59.53
7940		20.67	189.08	52.5	136.58	59.19
7945		20.67	189.20	52.4	136.80	59.28
7950		15.87	189.36	52.3	137.06	59.39
7955		8.65	189.40	52.0	137.40	59.54
8000		13.56	187.31	51.7	135.61	58.77
8005		15.77	187.25	51.6	135.65	58.78
8010		12.98	187.24	51.4	135.84	58.86
8015		3.99	187.24	51.3	135.94	58.91
8020		13.56	187.34	51.5	135.84	58.86
8025		16.40	187.26	51.4	135.86	58.87
8030		20.91	187.24	51.3	135.94	58.91
8035		11.30	187.23	51.9	135.33	58.64
8040		25.10	187.36	51.2	136.16	59.00
8045	6TH & EUCL	25.10	187.33	51.2	136.13	58.99
8050		21.16	187.32	50.8	136.52	59.16
8055		8.65	187.33	50.0	137.33	59.51
8060		20.19	187.30	50.9	136.40	59.11
8065		14.42	186.81	50.8	136.01	58.94
8070		19.23	187.06	50.4	136.66	59.22
8075		16.15	187.27	50.6	136.67	59.22
8080		8.32	187.29	50.5	136.79	59.28
8085		8.32	187.27	50.5	136.77	59.27
8090		106.55	186.51	49.5	137.01	59.37
8095		17.79	186.51	48.4	138.11	59.85
8100		0.00	186.77	49.5	137.27	59.48
8105		11.64	186.60	49.0	137.60	59.63
8110		7.26	186.56	48.7	137.86	59.74
8115		7.26	186.55	48.4	138.15	59.86
8120		11.64	186.55	48.0	138.55	60.04
8125		2.40	186.55	48.0	138.55	60.04
8130		2.40	186.55	47.7	138.85	60.17
8135		5.19	186.53	48.8	137.73	59.68
8140		1.01	186.51	49.5	137.01	59.37
8145		30.87	186.54	48.7	137.84	59.73





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.96	187.39	49.5	137.89	59.75
8205		0.91	187.39	49.0	138.39	59.97
8210		0.00	187.39	48.5	138.89	60.19
8215		13.85	187.50	48.7	138.80	60.15
8220		22.12	187.79	47.9	139.89	60.62
8225		19.14	188.29	47.7	140.59	60.92
8230		22.12	187.52	48.0	139.52	60.46
8235		22.12	187.77	47.5	140.27	60.78
8240		22.12	188.21	47.2	141.01	61.10
8250		11.06	187.52	47.5	140.02	60.68
8255		11.06	187.58	47.2	140.38	60.83
8260		11.06	187.60	47.2	140.40	60.84
8265		18.27	188.18	46.8	141.38	61.27
8270		5.77	187.58	47.2	140.38	60.83
8275		5.77	187.57	47.0	140.57	60.92
8280		5.77	187.57	46.8	140.77	61.00
8285		8.89	187.57	46.8	140.77	61.00
8290		8.89	187.58	46.8	140.78	61.00
8295		1.59	187.59	47.0	140.59	60.92
8300		4.18	188.82	49.5	139.32	60.37
8310		0.00	188.62	48.4	140.22	60.76
8320		0.87	188.38	47.8	140.58	60.92
8330		0.00	188.68	48.1	140.58	60.92
8340		0.00	188.76	48.0	140.76	61.00
8350		4.81	188.76	48.0	140.76	60.99
8360		0.00	188.38	47.6	140.78	61.00
8370		0.00	188.38	47.5	140.88	61.05
8380		7.21	189.05	48.6	140.45	60.86
8400		7.98	190.46	53.3	137.16	59.44
8410		0.58	190.40	53.0	137.40	59.54
8420		0.00	190.39	53.0	137.39	59.53
8430		0.58	190.40	53.2	137.20	59.45
8440		1.06	190.39	53.0	137.39	59.54
8450		0.96	190.39	52.8	137.59	59.62
8460		1.25	190.39	52.7	137.69	59.66
8470		1.25	190.39	52.5	137.89	59.75
8500		1.20	190.00	53.1	136.90	59.32
8510		1.73	189.86	52.7	137.16	59.43
8515		0.00	189.86	52.7	137.16	59.43
8520		1.01	189.75	52.0	137.75	59.69
8525		7.40	189.75	52.4	137.35	59.52
8530		0.24	189.70	52.0	137.70	59.67
8540		3.32	189.65	51.8	137.85	59.74



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		24.86	189.56	51.0	138.56	60.04
8560		24.57	189.54	51.8	137.74	59.69
8600		7.16	189.76	53.0	136.76	59.26
8610		23.13	189.72	52.2	137.52	59.59
8620		7.84	189.69	52.0	137.69	59.67
8630		25.24	189.62	51.7	137.92	59.77
8640		1.68	189.58	51.7	137.88	59.75
8650		9.90	189.57	51.4	138.17	59.87
8660		1.15	189.56	51.3	138.26	59.91
8670		4.33	189.55	51.1	138.45	59.99
8680		7.21	189.56	50.9	138.66	60.09
8690		0.00	189.45	49.5	139.95	60.65
8700		8.08	190.54	53.5	137.04	59.38
8710		11.59	190.60	53.7	136.90	59.32
8720		5.10	190.67	53.5	137.17	59.44
8725		9.66	190.87	54.0	136.87	59.31
8730		5.91	190.88	53.6	137.28	59.49
8735		11.88	191.10	53.8	137.30	59.50
8740		8.41	191.11	54.8	136.31	59.07
8745		8.41	191.10	54.0	137.10	59.41
8750		8.32	191.11	54.0	137.11	59.42
8755		216.36	187.18	55.2	131.98	57.19
8760		10.58	192.03	55.6	136.43	59.12
8765		3.08	192.03	54.7	137.33	59.51
8770		2.40	192.03	57.0	135.03	58.51
8775		7.21	193.20	57.0	136.20	59.02
8800		0.96	190.03	53.5	136.53	59.16
8810		11.35	189.90	53.0	136.90	59.32
8820		13.46	189.91	53.2	136.71	59.24
8830		4.47	190.02	53.2	136.82	59.29
8840		1.54	190.34	53.7	136.64	59.21
8845		1.59	190.34	53.7	136.64	59.21
8850		2.02	190.95	54.3	136.65	59.21
8900		15.29	189.79	52.1	137.69	59.67
8910		27.69	189.86	52.5	137.36	59.52
8920		12.40	189.95	52.8	137.15	59.43
8930		7.69	190.07	53.1	136.97	59.35
8940		0.53	190.20	53.4	136.80	59.28
8950		0.48	190.38	53.7	136.68	59.23
8960		2.74	190.55	54.8	135.75	58.82
8970		1.92	191.45	55.2	136.25	59.04
8975		5.19	190.91	55.0	135.91	58.89
8980		63.27	192.34	55.6	136.74	59.26



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		4.23	189.46	48.8	140.66	60.95
9010		0.19	189.46	48.8	140.66	60.95
9020		0.00	189.46	48.8	140.66	60.95
9030		1.20	189.46	49.1	140.36	60.82
9040		0.00	189.45	49.3	140.15	60.73
9050		0.00	189.45	49.5	139.95	60.65
9060		9.86	189.46	49.7	139.76	60.56
9070		10.82	189.47	50.0	139.47	60.44
9080		10.82	189.50	50.9	138.60	60.06
9090		5.53	189.56	51.4	138.16	59.87
9100		12.07	189.59	51.5	138.09	59.84
9110		0.00	189.67	52.0	137.67	59.66
9115		4.81	189.67	52.5	137.17	59.44
9120		4.47	189.77	52.6	137.17	59.44
9130		4.47	189.95	53.4	136.55	59.17
9140		1.78	189.98	54.0	135.98	58.93
9150	ROSS & McC	9.62	190.01	54.0	136.01	58.94
9160		0.00	190.09	54.0	136.09	58.97
9170		0.00	190.13	54.0	136.13	58.99
9175		7.74	189.95	53.3	136.65	59.21
9180		0.00	190.26	54.2	136.06	58.96
9190		0.00	190.51	54.8	135.71	58.81
9200		8.51	193.85	56.2	137.65	59.65
9210		8.51	193.92	56.0	137.92	59.77
9220		7.40	194.03	57.0	137.03	59.38
9230		10.96	194.04	56.8	137.24	59.47
9240		4.04	193.98	56.5	137.48	59.58
9250		7.79	194.21	57.8	136.41	59.11
9260		11.35	194.18	57.5	136.68	59.23
9270		7.45	194.25	58.5	135.75	58.83
9280		9.95	194.23	58.3	135.93	58.90
9300		0.00	195.83	61.5	134.33	58.21
9310		0.00	195.57	61.0	134.57	58.31
9320		4.33	195.81	62.0	133.81	57.98
9330		22.89	195.34	61.5	133.84	58.00
9333		3.65	194.71	61.0	133.71	57.94
9337		5.34	194.51	61.0	133.51	57.86
9340		8.41	194.24	59.0	135.24	58.60
9345		5.48	194.24	59.0	135.24	58.61
9350		9.76	194.25	60.0	134.25	58.18
9355		7.79	194.25	59.6	134.65	58.35
9360		11.15	194.29	60.5	133.79	57.97
9365		2.16	194.26	59.4	134.86	58.44



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		7.07	194.32	60.5	133.82	57.99
9375		9.14	194.27	60.5	133.77	57.97
9380		8.22	194.31	60.8	133.51	57.85
9385		2.26	194.27	60.5	133.77	57.97
9390		9.57	194.28	60.6	133.68	57.93
9395		5.48	194.28	60.5	133.78	57.97
9400		17.60	201.11	65.0	136.11	58.98
9410		0.00	201.10	64.0	137.10	59.41
9415		2.40	201.10	65.0	136.10	58.97
9420		12.93	201.08	63.0	138.08	59.84
9425		2.40	201.10	65.0	136.10	58.98
9430		0.00	201.08	62.0	139.08	60.27
9440		34.62	201.07	62.0	139.07	60.27
9460		5.77	201.30	65.5	135.80	58.85
9470		4.47	201.44	65.5	135.94	58.91
9480		0.00	201.44	65.5	135.94	58.91
9490		10.39	201.07	62.0	139.07	60.26
9500		12.02	189.91	52.7	137.21	59.46
9505		4.33	189.87	52.2	137.67	59.66
9510		18.80	189.90	52.1	137.80	59.71
9513		0.00	189.90	51.8	138.10	59.84
9515		12.21	189.81	51.8	138.01	59.81
9520		21.30	189.69	51.5	138.19	59.88
9525		6.73	189.66	51.5	138.16	59.87
9530		20.53	189.58	51.2	138.38	59.96
9535		16.78	189.52	51.1	138.42	59.98
9540		19.14	189.43	50.8	138.63	60.07
9545		26.54	189.33	50.5	138.83	60.16
9550		0.00	189.41	51.0	138.41	59.98
9555		11.68	189.14	50.5	138.64	60.08
9560		23.37	189.27	50.0	139.27	60.35
9565		355.79	188.89	50.5	138.39	59.97
9570		0.00	189.09	50.3	138.79	60.14
9575		0.00	188.89	50.2	138.69	60.10
9580		0.34	189.51	49.5	140.01	60.67
9585		9.66	189.09	50.0	139.09	60.27
9590		6.35	189.25	49.8	139.45	60.43
9595		1.68	189.25	49.7	139.55	60.47
9600		0.00	189.83	52.0	137.83	59.73
9605		6.44	189.69	51.5	138.19	59.88
9610		4.04	189.58	51.4	138.18	59.88
9640		20.63	189.26	49.7	139.56	60.48
9650		10.43	189.26	49.4	139.86	60.61





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		5.77	189.24	49.2	140.04	60.69
9670		4.09	189.36	49.4	139.96	60.65
9673		0.00	189.37	49.5	139.87	60.61
9675		3.17	189.36	49.4	139.96	60.65
9680		20.87	189.36	49.7	139.66	60.52
9685		0.00	189.46	48.9	140.56	60.91
9687		0.00	189.46	48.8	140.66	60.95
9688		0.00	189.46	48.9	140.56	60.91
9700		2.07	190.07	53.6	136.47	59.14
9710		0.00	190.03	53.3	136.73	59.25
9720		6.97	189.99	53.3	136.69	59.23
9730		2.16	190.00	53.6	136.40	59.11
9740		0.00	189.81	52.3	137.51	59.59
9750		6.44	189.67	51.8	137.87	59.74
9760		17.55	189.58	51.5	138.08	59.83
9770		12.12	189.52	51.2	138.32	59.94
9780		26.68	189.34	50.6	138.74	60.12
9790		12.89	189.33	50.1	139.23	60.33
9800		3.65	194.56	60.5	134.06	58.09
9810		5.34	194.53	60.5	134.03	58.08
9820		9.62	194.41	60.0	134.41	58.24
9830		11.06	194.38	60.0	134.38	58.23
9840		9.62	194.36	60.0	134.36	58.22
9850		11.06	194.37	60.0	134.37	58.23
9860		9.62	194.29	58.5	135.79	58.84
9870		11.06	193.90	57.0	136.90	59.32
9880		11.06	193.85	56.5	137.35	59.52
9900		0.00	189.98	57.0	132.98	57.63
9910		0.00	189.98	58.0	131.98	57.19
9920		0.00	189.98	58.0	131.98	57.19
10000		18.03	192.40	56.4	136.00	58.93
10010	6TH & HAMI	24.04	192.11	56.0	136.11	58.98
10020		24.04	191.82	55.0	136.82	59.29
10030		21.44	191.60	55.6	136.00	58.93
10040		11.54	191.12	54.0	137.12	59.42
10050		15.58	190.89	53.7	137.19	59.45
10060		12.02	190.67	53.5	137.17	59.44
10070		0.00	190.46	53.4	137.06	59.39
10080		7.21	190.38	53.3	137.08	59.40
10090		0.43	190.16	53.3	136.86	59.30
10100		8.89	190.03	53.2	136.83	59.29
10110		9.09	189.93	53.0	136.93	59.34
10115		5.05	189.91	53.0	136.91	59.33



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		8.03	189.77	52.0	137.77	59.70
10130		8.46	189.71	51.6	138.11	59.85
10140		15.96	189.66	51.4	138.26	59.91
10150		0.00	189.61	51.0	138.61	60.07
10160		45.68	189.57	50.8	138.77	60.13
10170		9.47	189.54	50.5	139.04	60.25
10180		2.74	189.52	50.0	139.52	60.46
10185		33.70	189.51	50.0	139.51	60.45
10190		4.33	189.46	49.0	140.46	60.87
10195		0.00	189.44	49.2	140.24	60.77
10200	3 RD & COM	28.37	189.42	50.0	139.42	60.42
10210		36.20	189.41	51.5	137.91	59.76
14100		9.62	193.29	66.5	126.79	54.94
14110		14.42	193.27	66.7	126.57	54.85
14115		4.81	193.27	66.8	126.47	54.80
14120		9.62	192.89	66.3	126.59	54.85
14130		14.42	192.89	66.5	126.39	54.77
14135		4.81	192.89	66.7	126.19	54.68
14140		8.41	192.47	65.8	126.67	54.89
14150		6.01	192.52	66.0	126.52	54.83
14160		13.22	192.42	65.5	126.92	55.00
14170		13.22	192.33	65.7	126.63	54.87
20000		0.00	90.74	58.8	31.94	13.84
20010		0.00	90.49	58.8	31.69	13.73
20020		0.00	90.23	58.8	31.43	13.62
20100		0.00	89.85	62.5	27.35	11.85
20110		0.00	88.41	62.5	25.91	11.23
20120		0.00	215.36	62.5	152.86	66.24
20130		0.00	211.54	62.5	149.04	64.58
20140		0.00	209.77	62.5	147.27	63.82
20200		0.00	89.73	62.5	27.23	11.80
20210		0.00	88.29	62.5	25.79	11.18
20220		0.00	214.95	62.5	152.45	66.06
20230		0.00	211.11	62.5	148.61	64.40
20240		0.00	209.21	62.5	146.71	63.57
20300		0.00	89.70	62.5	27.20	11.79
20310		0.00	88.25	62.5	25.75	11.16
20320		0.00	214.60	62.5	152.10	65.91
20330		0.00	210.74	62.5	148.24	64.24
20340		0.00	208.83	62.5	146.33	63.41
20400		0.00	89.70	62.5	27.20	11.79
20410		0.00	89.70	62.5	27.20	11.79
20420		0.00	208.63	62.5	146.13	63.32



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-5

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
20430		0.00	208.63	62.5	146.13	63.32
20440		0.00	208.51	62.5	146.01	63.27
20500		0.00	206.97	67.2	139.77	60.57
21000		0.00	190.67	59.0	131.67	57.06
21010		0.00	190.71	59.0	131.71	57.08
21020		0.00	190.78	59.0	131.78	57.10
21040		0.00	99.92	60.0	39.92	17.30
21050		0.00	99.96	62.5	37.46	16.23
21100		0.00	99.88	63.3	36.58	15.85
21110		0.00	99.80	63.3	36.50	15.82
21120		0.00	190.98	63.3	127.68	55.33
21130		0.00	190.83	59.8	131.03	56.78
21200		0.00	99.88	63.3	36.58	15.85
21210		0.00	99.88	63.3	36.58	15.85
21220		0.00	190.81	63.3	127.51	55.25
21230		0.00	190.81	59.8	131.01	56.77
21300		0.00	99.88	63.3	36.58	15.85
21330		0.00	190.80	59.8	131.00	56.76
23000		0.82	188.28	50.0	138.28	59.92
23010		0.00	188.25	50.0	138.25	59.91
23020		0.00	188.25	47.0	141.25	61.21
23030		0.00	188.25	46.0	142.25	61.64
23040		2.40	188.25	45.0	143.25	62.07
23050		0.00	188.21	50.0	138.21	59.89
23060		0.00	188.18	49.0	139.18	60.31
23070		10.10	188.16	48.5	139.66	60.52
23100	BRADSHAW &	0.00	188.16	47.0	141.16	61.17
23110		81.74	188.06	48.0	140.06	60.69
23120		5.14	188.05	48.5	139.55	60.47
23200		0.00	188.15	49.0	139.15	60.30
23210		0.00	188.15	49.0	139.15	60.30
23220		0.00	188.16	47.5	140.66	60.95
23230		10.10	188.16	46.5	141.66	61.39
23240		12.02	188.16	46.0	142.16	61.60
23400		0.00	188.14	49.0	139.14	60.29
23410		0.00	188.15	49.0	139.15	60.30
23420		0.00	188.16	48.0	140.16	60.74
23500		0.00	188.17	47.0	141.17	61.18
23510		0.00	188.17	47.0	141.17	61.17
23520		0.00	188.17	47.0	141.17	61.17
23530		0.00	188.17	47.0	141.17	61.17
23540		0.00	188.17	46.5	141.67	61.39
23550		0.00	188.17	46.0	142.17	61.60





CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

RUN-5

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
24000		495.22	162.19	76.0	86.19	37.35
40060		0.00	196.40			
40070		0.00	196.43			
40080		0.00	196.37			

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES

(-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
20000	12504.38
21400	995.89

NET SYSTEM INFLOW = 13500.27

NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 13500.27

\*\*\*\* CYBERNET SIMULATION COMPLETED \*\*\*\*

DATE: 10/04/1994

TIME: 9:13:17







## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 6 (Figure 5.8)

#### Existing Water Distribution System with Improvements Available Fire Flows for Average Day Demand of Maximum Demand Monthly

Total Demand	8,700 gpm	12.5 mgd
Number of Pumps Operating:		
Water Treatment Plant Pump Station	3	
Remote Pump Station	1	
Pump Operating Speed:		
Water Treatment Plant Pump Station	100%	
Remote Pump Station	100%	
Pump Discharge Rate:		
Pump 1 Water Treatment Plant PS	2,195 gpm	
Pump 2 Water Treatment Plant PS	2,205 gpm	
Pump 3 Water Treatment Plant PS	2,203 gpm	
Pump 1 Remote Pump Station	2,076 gpm	
Pump Discharge Head:		
Pump 1 Water Treatment Plant PS	169.1 ft	73.3 psi
Pump 2 Water Treatment Plant PS	168.8 ft	73.1 psi
Pump 3 Water Treatment Plant PS	168.8 ft	73.1 psi
Pump 1 Remote Pump Station	155.2 ft	67.3 psi
Hydraulic Grade Elevation:		
at Water Treatment Plant PS (El. 67 ft)	255.2 ft	81.6 psi
at Remote Pump Station (El. 60 ft)	252.1 ft	83.2 psi
at 3rd & Commercial (El. 50 ft)	249.7 ft	86.5 psi

Note: Pump discharge rate, pump discharge head, and hydraulic grade elevations listed above are for pumps running at full speed at maximum day demand prior to adding the fire flow demand at the nodes.









Cybernet Version: 2.16c SN: 1162130099 01-10-1994

Description: improvement

Drawing: C:\ELCENTRO\EC-PEAK2

Fire Flow Summary.

Page 1

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT No.
5	0.0	81.2	1	1500.0	5000.0	70.5	69.5	3060
10	0.0	81.1	1	1500.0	5000.0	70.3	69.4	3060
15	0.0	81.2	1	1500.0	5000.0	69.9	69.1	3060
20	0.0	80.9	1	1500.0	5000.0	69.2	68.9	3060
30	0.0	81.7	1	1500.0	5000.0	69.7	68.7	3220
40	0.0	82.3	1	1500.0	5000.0	70.2	68.6	3220
50	4.8	82.9	1	1504.8	5000.0	70.7	68.5	3220
60	5.9	83.0	1	1505.9	5000.0	70.4	68.3	3220
70	5.9	83.1	1	1505.9	5000.0	70.4	68.2	3220
80	0.5	83.8	1	1500.5	5000.0	70.8	68.1	3220
90	5.6	83.9	1	1505.6	5000.0	70.9	68.1	3220
100	8.6	84.1	1	1508.6	5000.0	70.9	68.1	3220
210	0.0	80.6	1	1500.0	5000.0	69.2	69.1	3060
220	0.0	80.5	1	1500.0	5000.0	68.5	68.6	3060
230	0.0	80.8	1	1500.0	5000.0	68.2	67.8	3060
240	0.0	80.9	1	1500.0	5000.0	66.8	67.5	3220
250	0.0	81.3	1	1500.0	5000.0	66.9	67.0	3220
260	63.8	81.3	1	1563.8	5000.0	67.2	66.6	3220
270	9.3	81.7	1	1509.3	5000.0	67.7	66.6	3220
280	0.0	81.9	1	1500.0	5000.0	67.9	66.7	3220
300	18.7	82.0	1	1518.7	5000.0	68.3	67.0	3220
305	10.9	82.4	1	1510.9	5000.0	68.6	67.2	3220
310	11.4	82.6	1	1511.4	5000.0	68.9	67.4	3220
315	12.4	82.8	1	1512.4	5000.0	69.4	67.5	3220
320	15.8	83.0	1	1515.8	5000.0	69.2	67.6	3220
325	21.8	83.5	1	1521.8	5000.0	69.6	67.8	3220
330	14.3	83.7	1	1514.3	5000.0	69.9	67.9	3220
335	5.6	83.8	1	1505.6	5000.0	70.1	68.0	3220
400	9.7	83.0	1	1509.7	5000.0	69.3	67.5	14135
405	9.7	83.2	1	1509.7	5000.0	67.1	67.5	14135
410	9.7	83.2	1	1509.7	5000.0	66.0	67.3	3610
415	15.6	83.4	1	1515.6	5000.0	66.1	67.5	3620
420	9.7	83.5	1	1509.7	5000.0	65.9	67.2	900
425	18.9	83.7	1	1518.9	5000.0	64.8	66.1	430
430	0.0	83.6	1	1500.0	5000.0	64.3	65.7	435
435	8.7	83.8	1	1508.7	5000.0	63.9	65.6	1750
440	4.4	84.2	1	1504.4	5000.0	64.5	64.4	3650
445	2.5	84.3	1	1502.5	5000.0	65.0	66.3	3650
450	17.2	84.3	1	1517.2	5000.0	65.9	66.8	445
455	17.0	84.3	1	1517.0	5000.0	65.7	66.6	457
457	9.4	84.4	1	1509.4	5000.0	62.6	66.9	459

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 2

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
459	16.7	85.0	1	1516.7	5000.0	62.5	66.5	457
460	0.0	85.1	1	1500.0	5000.0	65.8	67.1	459
465	16.1	85.4	1	1516.1	5000.0	66.9	68.1	14135
470	5.3	85.5	1	1505.3	5000.0	67.0	68.1	14135
475	1.8	85.4	1	1501.8	5000.0	67.5	68.1	14135
480	1.1	85.2	1	1501.1	5000.0	67.5	68.1	14135
485	9.0	85.1	1	1509.0	5000.0	67.5	68.1	14135
490	24.8	85.0	1	1524.8	5000.0	66.0	66.8	1755
495	21.1	85.0	1	1521.1	5000.0	66.3	68.1	14135
500	12.6	84.8	1	1512.6	5000.0	67.1	68.1	3220
505	18.4	84.4	1	1518.4	5000.0	66.4	68.1	3220
510	14.9	84.2	1	1514.9	5000.0	67.3	68.1	3220
600	8.7	84.3	1	1508.7	5000.0	64.0	65.0	605
605	15.3	84.4	1	1515.3	5000.0	63.1	63.3	1880
610	31.4	84.4	1	1531.4	5000.0	64.2	65.2	4700
615	9.7	84.8	1	1509.7	5000.0	62.9	65.8	1905
620	10.4	85.2	1	1510.4	5000.0	63.7	64.0	4800
625	7.2	85.6	1	1507.2	5000.0	62.0	64.6	4800
630	2.2	85.7	1	1502.2	5000.0	63.6	64.3	4900
635	2.2	85.7	1	1502.2	5000.0	61.2	63.9	1920
640	3.1	85.8	1	1503.1	5000.0	61.9	62.2	645
645	52.9	85.8	1	1552.9	5000.0	57.6	59.1	650
650	0.0	85.8	1	1500.0	5000.0	52.6	56.6	655
655	12.4	85.8	1	1512.4	5000.0	50.2	51.1	660
660	11.2	85.9	1	1511.2	3407.9	35.0	50.5	2020
700	19.9	85.4	1	1519.9	5000.0	66.6	67.3	1975
705	8.8	85.5	1	1508.8	5000.0	63.8	65.3	1982
710	10.8	85.6	1	1510.8	5000.0	60.9	61.0	1982
715	9.0	85.7	1	1509.0	5000.0	59.8	61.2	8000
720	24.3	85.8	1	1524.3	5000.0	58.3	59.5	8040
725	13.0	85.9	1	1513.0	5000.0	53.7	56.9	730
730	21.5	86.0	1	1521.5	5000.0	43.6	43.6	8085
735	24.2	86.1	1	1524.2	5000.0	38.5	41.5	740
740	22.3	86.2	1	1522.3	4825.4	35.0	37.0	745
745	11.2	86.2	1	1511.2	4348.6	35.0	35.5	750
750	0.0	86.3	1	1500.0	4033.8	35.0	39.7	8100
800	8.7	82.6	1	1508.7	5000.0	68.2	67.4	14135
810	16.1	82.0	1	1516.1	5000.0	67.8	67.3	14135
820	9.3	81.5	1	1509.3	5000.0	67.1	67.1	14135
830	9.3	81.3	1	1509.3	5000.0	67.0	67.0	14135

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 3

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
840	5.4	81.2	1	1505.4	5000.0	67.0	66.8	14135
850	0.0	81.5	1	1500.0	5000.0	67.0	66.9	14135
860	8.8	81.2	1	1508.8	5000.0	66.2	66.4	14135
870	3.1	82.5	1	1503.1	5000.0	63.6	62.6	4145
880	8.3	82.9	1	1508.3	5000.0	63.9	63.6	4125
890	8.3	83.0	1	1508.3	5000.0	64.6	63.5	4110
900	9.7	83.1	1	1509.7	5000.0	61.2	67.6	910
910	31.8	82.8	1	1531.8	5000.0	65.7	67.1	3625
920	23.5	82.6	1	1523.5	5000.0	61.9	67.3	14135
935	3.5	82.1	1	1503.5	5000.0	66.6	66.8	940
940	3.5	81.9	1	1503.5	5000.0	61.1	63.6	950
950	7.4	81.7	1	1507.4	5000.0	60.0	61.1	960
960	8.0	81.5	1	1508.0	5000.0	57.9	59.9	980
970	11.3	81.3	1	1511.3	5000.0	53.9	53.9	980
980	3.4	81.3	1	1503.4	5000.0	45.2	53.9	970
1000	19.1	81.7	1	1519.1	4612.1	35.0	52.5	1100
1010	20.3	82.1	1	1520.3	5000.0	47.7	54.4	1110
1015	9.4	82.4	1	1509.4	5000.0	37.6	51.5	1090
1030	3.1	81.2	1	1503.1	5000.0	37.6	43.6	1040
1040	10.9	81.3	1	1510.9	4631.5	35.0	42.6	1150
1050	10.5	81.7	1	1510.5	4766.3	35.0	38.1	1160
1060	13.1	81.7	1	1513.1	3130.4	35.0	47.8	1200
1070	13.8	82.0	1	1513.8	3117.2	35.0	48.9	1210
1080	12.5	82.3	1	1512.5	3447.2	35.0	49.9	1090
1090	9.4	82.3	1	1509.4	2493.1	35.0	65.7	1080
1100	6.0	81.7	1	1506.0	2204.1	35.0	72.9	1110
1110	8.7	81.9	1	1508.7	4943.4	35.0	44.2	1100
1150	11.3	81.2	1	1511.3	2854.9	35.0	40.7	1240
1155	8.4	81.3	1	1508.4	2197.2	35.0	61.3	1150
1160	10.9	81.5	1	1510.9	3877.1	35.0	40.4	1255
1170	6.0	81.1	1	1506.0	2120.4	35.0	35.0	1240
1175	3.2	81.2	1	1503.2	1981.9	35.0	35.0	1245
1180	3.2	81.3	1	1503.2	2157.5	35.0	35.0	1250
1185	5.6	81.4	1	1505.6	3553.8	35.0	35.0	1255
1200	11.0	81.7	1	1511.0	2922.4	35.0	52.0	1210
1205	8.4	81.4	1	1508.4	3276.0	34.7	34.7	1260
1210	11.7	81.8	1	1511.7	2844.2	35.0	47.5	1220
1220	9.1	81.3	1	1509.1	2641.8	35.0	35.2	1270
1225	5.9	81.5	1	1505.9	2833.2	35.0	35.0	1265
1240	6.3	81.1	1	1506.3	1661.0	35.0	51.0	1170

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
1245	6.3	81.2	1	1506.3	1563.8	35.0	50.6	1175
1250	6.3	81.3	1	1506.3	1631.8	35.0	52.8	1180
1255	6.3	81.4	1	1506.3	2041.3	35.0	63.4	1185
1260	5.4	81.5	1	1505.4	1735.3	35.0	65.7	1205
1265	7.5	81.5	1	1507.5	1541.6	35.0	64.9	1225
1270	7.5	81.5	1	1507.5	1531.8	35.0	63.1	1220
1275	24.2	81.6	1	1524.2	4577.7	35.0	56.8	1030
1300	14.4	82.0	1	1514.4	5000.0	38.2	63.0	1310
1305	19.6	82.3	1	1519.6	4391.6	35.0	61.5	1010
1310	0.0	82.1	1	1500.0	5000.0	59.9	61.5	1300
1315	11.7	81.6	1	1511.7	5000.0	47.8	59.7	1320
1320	17.0	82.4	1	1517.0	4300.6	35.0	64.9	1315
1325	5.9	82.4	1	1505.9	5000.0	62.7	63.3	1330
1330	9.9	82.5	1	1509.9	5000.0	59.9	63.7	1325
1335	19.4	82.5	1	1519.4	5000.0	49.3	56.7	1435
1350	11.3	82.6	1	1511.3	5000.0	38.9	56.1	1440
1400	11.4	82.8	1	1511.4	3606.1	35.0	61.0	1405
1403	8.8	82.9	1	1508.8	3779.0	35.0	60.7	1400
1405	11.9	82.6	1	1511.9	3681.5	35.0	60.2	1400
1420	6.2	82.9	1	1506.2	3307.7	35.0	65.5	1425
1425	9.9	83.1	1	1509.9	4591.3	35.0	51.7	1420
1430	6.5	83.2	1	1506.5	4069.8	35.0	60.5	1440
1435	17.9	82.9	1	1517.9	5000.0	40.0	57.6	1335
1440	8.7	82.9	1	1508.7	3873.5	35.0	62.5	1430
1445	5.9	83.1	1	1505.9	4755.4	35.0	51.1	1420
1450	4.3	83.2	1	1504.3	5000.0	36.6	44.4	1540
1455	6.2	83.3	1	1506.2	2907.6	35.0	69.5	1403
1460	9.0	83.3	1	1509.0	5000.0	37.8	51.9	1455
1465	4.3	83.4	1	1504.3	4490.4	35.0	59.5	1475
1470	5.9	83.5	1	1505.9	5000.0	52.6	63.1	1460
1475	0.0	83.7	1	1500.0	4751.2	35.0	56.3	1465
1540	22.1	83.4	1	1522.1	3949.7	35.0	59.2	1450
1600	5.7	83.1	1	1505.7	2600.2	35.0	72.1	1605
1605	11.2	83.4	1	1511.2	3457.0	35.0	63.6	1600
1610	5.9	83.9	1	1505.9	5000.0	39.0	52.9	1615
1615	5.6	83.8	1	1505.6	4131.6	35.0	57.7	1605
1620	0.0	84.0	1	1500.0	5000.0	49.2	56.7	1625
1625	14.2	84.1	1	1514.2	5000.0	48.3	56.8	1620
1630	14.2	83.8	1	1514.2	5000.0	49.5	59.5	1605
1635	10.0	83.6	1	1510.0	5000.0	55.5	64.7	1630

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 5

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Zone Fire Flow (gpm)	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	Zone @JCT Number
1640	4.6	84.2	1	1504.6	5000.0	36.7	48.3	1705	
1645	8.7	84.0	1	1508.7	4310.9	35.0	57.8	1647	
1647	4.5	84.1	1	1504.5	4295.5	35.0	56.8	1650	
1650	8.7	83.9	1	1508.7	4353.2	35.0	56.2	1647	
1653	4.4	83.8	1	1504.4	4469.0	35.0	57.4	1650	
1655	4.3	83.7	1	1504.3	4869.4	35.0	55.6	1653	
1700	19.4	84.2	1	1519.4	3378.2	35.0	54.5	1702	
1702	38.4	84.1	1	1538.4	2772.1	35.0	64.7	1700	
1705	9.3	84.3	1	1509.3	2605.2	35.0	73.6	1640	
1750	22.9	84.1	1	1522.9	1771.0	35.0	64.5	1755	
1755	23.1	84.6	1	1523.1	1774.2	35.0	64.0	1750	
1770	7.8	84.4	1	1507.8	4918.2	35.0	43.2	1790	
1775	13.6	84.7	1	1513.6	5000.0	58.0	65.7	1770	
1780	11.2	84.9	1	1511.2	5000.0	65.5	66.9	1775	
1790	2.5	84.6	1	1502.5	2918.8	35.0	69.2	1770	
1800	29.7	84.9	1	1529.7	5000.0	64.0	67.7	460	
1805	29.1	85.1	1	1529.1	5000.0	65.7	67.5	1780	
1880	0.8	84.5	1	1500.8	1891.8	35.0	76.5	3060	
1900	17.9	84.9	1	1517.9	2235.4	35.0	75.8	3060	
1905	8.4	85.1	1	1508.4	2262.2	35.0	75.7	3060	
1910	9.7	85.3	1	1509.7	2280.6	35.0	75.7	3060	
1915	7.4	85.6	1	1507.4	2259.9	35.0	75.7	3060	
1920	13.7	85.7	1	1513.7	5000.0	35.4	46.5	1930	
1925	7.3	85.7	1	1507.3	4305.9	35.0	56.7	1920	
1930	6.4	85.7	1	1506.4	4375.4	35.0	55.3	1920	
1935	14.6	85.2	1	1514.6	5000.0	57.4	62.4	1975	
1940	23.6	85.2	1	1523.6	5000.0	41.7	53.3	1945	
1945	7.1	85.2	1	1507.1	5000.0	40.7	53.5	1940	
1950	15.3	85.3	1	1515.3	5000.0	48.9	59.0	1905	
1955	19.0	85.5	1	1519.0	5000.0	45.5	57.5	1910	
1960	15.9	85.7	1	1515.9	5000.0	47.4	57.0	1915	
1965	23.0	85.8	1	1523.0	5000.0	44.6	50.0	1925	
1970	18.8	85.8	1	1518.8	5000.0	47.2	51.7	1930	
1975	10.6	85.3	1	1510.6	5000.0	58.3	62.1	1935	
1980	17.4	85.4	1	1517.4	2279.2	35.0	75.7	3060	
1982	2.7	85.4	1	1502.7	2172.2	35.0	75.2	1985	
1985	6.5	85.4	1	1506.5	5000.0	47.9	47.9	1982	
1990	12.6	85.5	1	1512.6	5000.0	42.2	60.2	1995	
1995	15.6	85.7	1	1515.6	4516.4	35.0	62.6	2000	
2000	8.1	85.9	1	1508.1	4961.1	35.0	58.8	1995	

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
2005	11.2	85.9	1	1511.2	2245.0	35.0	75.8	3060
2010	11.2	85.9	1	1511.2	2234.4	35.0	75.8	3060
2015	11.2	85.9	1	1511.2	2171.1	35.0	75.9	3060
2020	11.2	85.8	1	1511.2	2150.2	35.0	71.4	660
2200	0.0	80.4	1	1500.0	5000.0	65.9	66.2	2210
2210	0.0	80.2	1	1500.0	5000.0	64.6	64.9	2370
2220	0.0	80.1	1	1500.0	5000.0	64.2	64.2	2370
2230	0.0	80.0	1	1500.0	5000.0	64.0	64.3	3060
2300	6.0	80.1	1	1506.0	3285.5	34.7	34.7	2370
2310	4.2	80.1	1	1504.2	2312.4	35.0	55.7	2370
2320	1.9	80.1	1	1501.9	2604.3	35.0	50.1	2370
2330	6.0	80.1	1	1506.0	2375.6	35.0	35.0	2370
2340	4.2	80.1	1	1504.2	1907.8	35.0	49.4	2370
2350	1.9	80.1	1	1501.9	2066.0	35.0	44.9	2370
2360	9.1	80.1	1	1509.1	1939.3	35.0	35.0	2370
2370	4.2	80.1	1	1504.2	1651.3	35.0	46.1	2360
2380	1.9	80.3	1	1501.9	1759.5	35.0	42.1	2370
2400	0.0	81.7	1	1500.0	5000.0	66.0	66.0	9470
2410	0.0	81.7	1	1500.0	5000.0	68.0	67.9	9470
2420	0.0	81.6	1	1500.0	5000.0	70.2	69.1	3060
2430	9.3	81.6	1	1509.3	5000.0	69.0	69.1	3060
2440	9.3	81.4	1	1509.3	5000.0	50.7	50.7	2460
2450	9.3	81.4	1	1509.3	3492.8	35.0	35.0	2460
2460	9.3	81.4	1	1509.3	2873.9	35.0	48.7	2470
2470	9.3	81.4	1	1509.3	2973.4	35.0	46.7	2460
3005	7.0	81.6	1	1507.0	5000.0	61.4	64.3	3010
3010	11.9	81.2	1	1511.9	5000.0	60.4	63.8	3015
3015	7.3	81.1	1	1507.3	5000.0	59.6	63.9	3010
3020	10.4	80.7	1	1510.4	5000.0	62.4	63.4	3300
3025	3.1	80.3	1	1503.1	5000.0	64.3	64.5	3065
3030	11.2	80.3	1	1511.2	5000.0	63.4	64.4	3035
3035	0.0	80.2	1	1500.0	5000.0	63.6	64.2	3060
3040	0.0	80.2	1	1500.0	5000.0	64.2	63.8	3060
3045	5.3	80.1	1	1505.3	5000.0	54.3	54.5	3050
3050	0.0	79.9	1	1500.0	5000.0	45.8	46.6	3055
3055	11.1	79.8	1	1511.1	5000.0	41.6	41.8	3060
3060	8.3	79.6	1	1508.3	5000.0	35.7	42.4	4040
3065	4.6	80.1	1	1504.6	5000.0	58.0	60.8	3070
3070	12.4	80.1	1	1512.4	5000.0	57.5	58.1	3075
3075	6.2	79.9	1	1506.2	5000.0	46.4	47.5	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3080	0.0	79.9	1	1500.0	5000.0	43.8	48.1	3075
3100	0.0	81.6	1	1500.0	2356.2	35.0	35.0	3105
3105	0.5	81.6	1	1500.5	1718.0	35.0	55.1	3100
3110	2.5	81.4	1	1502.5	2315.9	35.0	58.9	3105
3115	3.7	81.2	1	1503.7	5000.0	38.2	47.2	3110
3130	16.2	81.0	1	1516.2	4510.5	35.0	39.8	3140
3140	9.0	80.7	1	1509.0	3581.3	35.0	47.1	3147
3145	9.0	80.6	1	1509.0	3943.7	35.0	34.9	3147
3147	9.3	80.5	1	1509.3	3062.1	35.0	51.0	3145
3150	16.2	80.5	1	1516.2	4276.6	35.0	44.3	3147
3200	6.4	80.3	1	1506.4	2254.9	35.0	57.0	3210
3205	16.4	80.1	1	1516.4	2622.2	35.0	34.9	3210
3210	0.0	80.1	1	1500.0	1778.9	35.0	57.1	3205
3215	13.4	79.8	1	1513.4	2731.3	35.0	34.9	3220
3220	3.7	79.8	1	1503.7	1661.2	35.0	60.8	3215
3225	11.7	80.3	1	1511.7	3531.1	35.0	38.5	3200
3230	17.9	80.1	1	1517.9	3521.6	35.0	41.7	3210
3235	13.4	79.9	1	1513.4	3342.2	35.0	34.9	3240
3240	3.7	79.8	1	1503.7	1606.8	35.0	66.8	3235
3245	9.9	80.7	1	1509.9	4075.1	35.0	41.2	3247
3247	6.1	80.6	1	1506.1	2520.5	35.0	64.5	3245
3250	17.6	80.3	1	1517.6	4566.7	35.0	46.0	3245
3252	15.9	80.2	1	1515.9	3912.1	35.0	47.8	3247
3255	14.7	80.1	1	1514.7	5000.0	43.0	46.9	3259
3257	13.4	80.0	1	1513.4	4154.7	35.0	34.9	3259
3259	3.7	79.9	1	1503.7	2789.6	35.0	57.1	3257
3260	10.1	81.4	1	1510.1	3703.0	35.0	35.0	3262
3262	2.7	81.4	1	1502.7	2229.7	35.0	62.2	3260
3265	10.1	81.1	1	1510.1	3532.9	35.0	35.0	3267
3267	2.7	81.1	1	1502.7	2218.1	35.0	60.6	3265
3270	9.9	81.0	1	1509.9	4499.9	35.0	40.4	3275
3275	10.1	80.9	1	1510.1	2486.2	35.0	35.0	3277
3277	2.7	80.9	1	1502.7	1837.0	35.0	54.0	3275
3280	7.4	80.5	1	1507.4	3341.1	35.0	54.7	3275
3285	7.4	80.7	1	1507.4	3343.3	35.0	55.5	3280
3290	26.1	80.8	1	1526.1	3444.1	35.0	55.6	3285
3295	20.1	81.0	1	1520.1	4231.5	35.0	52.8	3290
3300	12.7	80.3	1	1512.7	5000.0	35.0	40.8	3310
3305	8.3	80.2	1	1508.3	4119.0	35.0	34.9	3310
3310	4.0	80.2	1	1504.0	2830.5	35.0	56.6	3305

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3315	8.3	80.2	1	1508.3	3896.1	35.0	34.9	3320
3320	4.0	80.1	1	1504.0	2802.5	35.0	54.7	3315
3325	8.3	80.1	1	1508.3	4118.6	35.0	34.9	3330
3330	4.0	80.1	1	1504.0	2916.3	35.0	55.2	3325
3400	5.4	80.7	1	1505.4	5000.0	38.1	38.1	3405
3405	3.1	80.7	1	1503.1	2137.0	35.0	70.4	3400
3410	7.7	80.9	1	1507.7	5000.0	43.8	43.8	3415
3415	3.1	80.9	1	1503.1	2097.4	35.0	72.0	3410
3420	5.4	81.1	1	1505.4	4695.9	35.0	34.9	3425
3425	3.1	81.1	1	1503.1	2082.2	35.0	69.5	3420
3430	5.4	81.2	1	1505.4	5000.0	35.9	35.9	3435
3435	3.1	81.2	1	1503.1	2112.8	35.0	70.5	3430
3440	9.3	81.5	1	1509.3	5000.0	35.1	61.6	3450
3450	16.1	81.8	1	1516.1	5000.0	44.1	57.9	3460
3460	8.7	82.4	1	1508.7	4162.2	35.0	64.8	3450
3470	8.7	82.3	1	1508.7	2202.4	35.0	73.7	3480
3480	16.1	81.7	1	1516.1	4308.6	35.0	54.4	3470
3490	8.9	81.3	1	1508.9	2550.7	35.0	70.4	3500
3500	10.4	81.1	1	1510.4	5000.0	38.6	44.9	3550
3510	10.1	81.5	1	1510.1	5000.0	39.3	56.3	3550
3520	13.5	82.0	1	1513.5	5000.0	43.2	51.2	3530
3530	12.7	81.9	1	1512.7	4683.6	35.0	55.9	3520
3540	17.4	81.4	1	1517.4	4349.8	35.0	54.7	3550
3550	9.3	81.0	1	1509.3	2548.7	35.0	70.4	3500
3600	9.7	82.7	1	1509.7	4353.8	35.0	69.5	14135
3605	12.4	82.3	1	1512.4	5000.0	65.4	67.0	3615
3610	9.7	82.8	1	1509.7	4326.7	35.0	69.7	14135
3615	9.7	82.5	1	1509.7	5000.0	64.6	66.7	3625
3620	9.7	82.9	1	1509.7	4201.2	35.0	70.1	14135
3625	9.7	82.7	1	1509.7	5000.0	64.7	66.6	3615
3630	9.7	83.2	1	1509.7	2209.0	35.0	75.8	3060
3635	23.6	82.9	1	1523.6	5000.0	51.7	57.5	3685
3640	0.0	83.3	1	1500.0	4157.7	35.0	56.2	3643
3643	0.0	83.1	1	1500.0	4644.2	35.0	35.2	3660
3645	3.5	83.0	1	1503.5	5000.0	47.1	50.5	3643
3650	4.0	84.1	1	1504.0	4523.5	35.0	67.2	440
3660	0.0	83.3	1	1500.0	2257.5	35.0	35.0	3670
3665	22.2	83.2	1	1522.2	5000.0	43.7	50.8	3697
3670	0.0	83.3	1	1500.0	1878.4	35.0	35.1	3680
3675	0.0	83.3	1	1500.0	5000.0	38.5	54.5	3665

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3680	0.0	83.5	1	1500.0	1480.6*	35.0	51.5	3670
3685	6.8	82.6	1	1506.8	4140.6	35.0	56.1	3695
3690	0.0	83.5	1	1500.0	1791.2	35.0	38.9	3670
3695	17.5	82.7	1	1517.5	4963.9	35.0	44.6	3685
3697	17.3	82.9	1	1517.3	4503.9	35.0	53.4	3695
3698	0.0	83.0	1	1500.0	4704.6	35.0	53.1	3695
4000	13.8	79.9	1	1513.8	4458.5	35.0	39.6	4050
4010	11.8	80.0	1	1511.8	3769.7	35.0	56.8	4000
4020	11.8	79.9	1	1511.8	4913.5	35.0	43.0	4030
4030	14.2	79.8	1	1514.2	3575.8	35.0	48.5	4040
4040	8.2	79.8	1	1508.2	3628.2	35.0	47.5	4030
4050	5.9	79.9	1	1505.9	3569.6	35.0	40.2	4060
4060	9.2	79.8	1	1509.2	3371.0	35.0	44.8	4070
4070	17.0	79.9	1	1517.0	3372.9	35.0	44.7	4060
4080	6.2	79.9	1	1506.2	3681.4	35.0	41.4	4070
4100	6.2	80.0	1	1506.2	4798.6	35.0	44.9	14100
4105	14.4	80.2	1	1514.4	5000.0	52.5	54.0	4100
4110	8.3	80.3	1	1508.3	4738.4	35.0	61.4	4105
4115	6.2	80.2	1	1506.2	4817.0	35.0	44.6	14120
4120	14.4	80.3	1	1514.4	5000.0	52.3	53.9	4115
4125	8.3	80.7	1	1508.3	4760.8	35.0	61.1	4120
4130	3.1	80.3	1	1503.1	5000.0	39.1	47.1	14140
4135	11.4	80.4	1	1511.4	5000.0	52.2	54.8	4130
4140	7.4	80.5	1	1507.4	4776.7	35.0	35.1	4150
4145	7.4	80.7	1	1507.4	5000.0	39.3	39.5	4155
4150	4.3	80.7	1	1504.3	3008.2	35.0	59.8	4140
4155	4.3	80.8	1	1504.3	3156.1	35.0	61.6	4145
4200	6.9	81.2	1	1506.9	5000.0	51.4	58.7	4230
4205	6.9	81.4	1	1506.9	5000.0	48.5	57.4	4240
4210	6.9	82.0	1	1506.9	5000.0	51.8	59.0	4250
4220	8.8	81.1	1	1508.8	4820.5	35.0	60.9	4225
4225	22.9	80.9	1	1522.9	5000.0	51.8	56.7	4260
4230	6.9	81.3	1	1506.9	4652.0	35.0	61.6	4235
4235	14.7	81.1	1	1514.7	5000.0	52.7	57.2	4270
4240	6.9	81.5	1	1506.9	4615.8	35.0	61.1	4205
4245	14.7	81.3	1	1514.7	5000.0	52.8	57.4	4240
4250	6.9	81.6	1	1506.9	4686.5	35.0	62.1	4255
4255	14.7	81.5	1	1514.7	5000.0	54.2	58.8	4250
4260	8.8	80.8	1	1508.8	4329.0	35.0	59.4	4267
4265	12.2	80.7	1	1512.2	5000.0	42.8	42.7	4267

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4266	0.0	80.6	1	1500.0	5000.0	37.6	47.0	14170
4267	3.4	80.6	1	1503.4	2988.3	35.0	64.5	4265
4270	7.8	81.1	1	1507.8	4337.9	35.0	59.7	4278
4275	11.2	80.9	1	1511.2	5000.0	43.8	43.7	4278
4278	3.4	80.8	1	1503.4	3210.0	35.0	63.1	4275
4280	7.8	81.2	1	1507.8	4366.0	35.0	60.2	4285
4285	7.8	81.2	1	1507.8	5000.0	44.8	53.5	4280
4290	7.8	81.7	1	1507.8	4430.4	35.0	60.8	4295
4295	7.8	81.7	1	1507.8	5000.0	47.3	54.7	4290
4300	8.2	81.9	1	1508.2	5000.0	45.7	55.8	4310
4310	8.2	82.2	1	1508.2	5000.0	43.4	55.7	4320
4320	8.2	82.6	1	1508.2	5000.0	44.5	55.2	4310
4330	8.2	82.7	1	1508.2	5000.0	49.4	58.2	4320
4340	11.6	81.8	1	1511.6	5000.0	45.1	45.0	4380
4350	11.6	82.1	1	1511.6	5000.0	43.1	43.0	4390
4360	8.2	82.3	1	1508.2	5000.0	44.3	54.8	4390
4370	8.2	82.6	1	1508.2	5000.0	49.2	57.8	4360
4380	3.4	81.7	1	1503.4	3348.8	35.0	63.0	4340
4390	3.4	82.0	1	1503.4	3291.6	35.0	62.8	4350
4400	5.7	82.8	1	1505.7	4080.2	35.0	44.6	4410
4410	11.6	82.8	1	1511.6	3670.3	35.0	49.6	4430
4420	5.9	82.8	1	1505.9	3781.0	35.0	35.0	4430
4430	4.6	82.8	1	1504.6	2437.4	35.0	60.5	4420
4500	19.6	83.8	1	1519.6	5000.0	59.5	64.3	4510
4510	33.6	83.4	1	1533.6	5000.0	60.2	63.0	3675
4520	61.3	83.1	1	1561.3	5000.0	61.4	63.4	3698
4530	8.8	83.0	1	1508.8	5000.0	63.4	65.3	4520
4540	4.8	82.7	1	1504.8	5000.0	67.5	67.1	4590
4550	10.5	82.6	1	1510.5	5000.0	66.8	66.4	4590
4560	4.8	82.5	1	1504.8	5000.0	65.9	65.6	4590
4570	2.7	82.8	1	1502.7	5000.0	65.8	65.2	4590
4580	2.7	82.8	1	1502.7	5000.0	64.4	63.9	4590
4590	2.7	82.2	1	1502.7	5000.0	62.7	64.6	4580
4600	12.7	84.1	1	1512.7	3489.4	35.0	48.3	4610
4610	0.0	83.9	1	1500.0	3181.5	35.0	55.0	4600
4620	0.0	83.6	1	1500.0	3509.1	35.0	48.4	4610
4700	2.6	84.4	1	1502.6	5000.0	60.7	62.9	4710
4710	25.0	84.1	1	1525.0	5000.0	59.7	63.2	4700
4720	22.3	84.0	1	1522.3	5000.0	58.4	60.2	4730
4730	0.0	83.8	1	1500.0	5000.0	59.0	60.1	4720

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4740	23.2	83.9	1	1523.2	5000.0	59.6	62.0	4750
4750	6.2	83.9	1	1506.2	5000.0	60.7	61.6	4740
4800	55.4	85.1	1	1555.4	5000.0	63.0	64.2	620
4810	11.6	84.8	1	1511.6	5000.0	39.9	41.9	4870
4820	0.0	84.7	1	1500.0	4255.2	35.0	58.4	4830
4830	0.0	84.5	1	1500.0	5000.0	35.6	48.7	4820
4840	0.0	84.0	1	1500.0	4208.8	35.0	59.6	4830
4850	0.2	84.3	1	1500.2	4971.5	35.0	35.0	4870
4870	65.2	84.3	1	1565.2	1270.7*	35.0	77.4	3060
4880	0.0	84.2	1	1500.0	5000.0	35.3	53.7	4830
4900	45.5	85.7	1	1545.5	5000.0	63.7	64.3	630
4910	6.9	85.7	1	1506.9	5000.0	61.8	62.9	4920
4920	0.0	85.8	1	1500.0	5000.0	62.2	62.8	4910
4930	1.0	85.8	1	1501.0	5000.0	62.2	63.0	640
4940	54.7	85.9	1	1554.7	5000.0	58.2	59.2	4947
4947	14.5	85.8	1	1514.5	5000.0	51.5	51.9	5190
4950	1.5	85.7	1	1501.5	5000.0	59.0	61.3	4960
4955	14.5	85.7	1	1514.5	4911.6	35.0	62.9	4947
4960	1.5	85.3	1	1501.5	5000.0	58.0	58.8	5180
4965	4.6	85.3	1	1504.6	5000.0	57.5	57.4	5180
4970	0.0	84.9	1	1500.0	5000.0	56.9	58.3	5110
4975	18.2	84.8	1	1518.2	5000.0	57.5	58.7	5120
4977	6.8	85.4	1	1506.8	5000.0	57.4	60.2	4975
4980	6.8	85.6	1	1506.8	5000.0	60.5	61.5	4977
4985	6.8	85.4	1	1506.8	5000.0	59.7	60.8	5170
4990	31.0	85.3	1	1531.0	5000.0	60.6	60.9	5150
4995	0.0	85.7	1	1500.0	5000.0	59.6	60.2	5200
5000	14.9	82.1	1	1514.9	5000.0	67.8	67.1	14135
5010	0.0	82.4	1	1500.0	5000.0	67.8	67.3	14135
5020	0.0	82.7	1	1500.0	5000.0	68.3	67.5	14135
5030	7.9	82.9	1	1507.9	5000.0	69.0	67.7	14135
5040	0.0	83.5	1	1500.0	5000.0	69.8	68.0	14135
5050	0.0	83.5	1	1500.0	5000.0	67.7	68.0	14135
5060	0.0	83.7	1	1500.0	5000.0	66.1	67.0	5070
5070	0.0	84.3	1	1500.0	5000.0	64.2	65.0	5080
5080	0.0	84.7	1	1500.0	5000.0	63.3	63.7	5130
5090	0.0	85.7	1	1500.0	5000.0	62.3	62.5	6000
5100	0.0	85.0	1	1500.0	4278.5	35.0	66.7	4960
5110	7.5	85.0	1	1507.5	4312.9	35.0	58.6	5120
5120	10.5	84.8	1	1510.5	5000.0	39.2	50.6	5110

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
5130	10.5	84.0	1	1510.5	4242.9	35.0	54.7	5140
5140	16.7	84.4	1	1516.7	5000.0	37.0	42.9	5130
5150	6.8	84.6	1	1506.8	4618.7	35.0	55.1	5140
5160	9.3	84.8	1	1509.3	5000.0	44.1	53.8	5140
5170	6.8	85.3	1	1506.8	4727.0	35.0	57.3	5160
5180	7.7	85.2	1	1507.7	4930.2	35.0	58.1	4965
5190	6.2	85.7	1	1506.2	5000.0	39.2	53.1	4947
5200	5.0	85.7	1	1505.0	5000.0	58.6	59.3	5240
5205	5.0	85.8	1	1505.0	5000.0	56.5	58.7	5210
5210	10.1	85.9	1	1510.1	5000.0	57.2	58.2	5250
5215	5.0	86.0	1	1505.0	3269.0	35.0	72.2	5220
5220	5.0	86.1	1	1505.0	5000.0	56.3	58.2	5215
5230	5.3	86.0	1	1505.3	5000.0	55.7	58.6	5220
5235	62.3	85.8	1	1562.3	5000.0	55.9	59.0	5230
5240	3.8	85.6	1	1503.8	2759.2	35.0	72.6	5250
5250	7.7	85.7	1	1507.7	4579.5	35.0	54.2	5240
5255	7.6	85.8	1	1507.6	2763.8	35.0	74.6	3060
5260	15.1	86.0	1	1515.1	5000.0	57.0	58.6	5277
5265	7.6	86.2	1	1507.6	5000.0	57.8	59.3	5220
5270	1.4	86.0	1	1501.4	4365.3	35.0	34.9	5277
5277	0.0	85.9	1	1500.0	1800.7	35.0	74.3	5270
5279	16.6	86.1	1	1516.6	4190.6	35.0	47.3	5280
5280	54.0	86.1	1	1554.0	4581.2	35.0	39.5	5279
5290	0.0	86.5	1	1500.0	3527.0	35.0	62.6	5280
5292	0.0	86.2	1	1500.0	3017.7	35.0	70.3	5297
5295	3.7	86.5	1	1503.7	4555.1	35.0	41.7	23120
5297	0.0	85.4	1	1500.0	5000.0	36.2	43.0	23200
5500	4.8	82.8	1	1504.8	5000.0	40.1	61.5	5530
5510	4.8	82.7	1	1504.8	5000.0	38.7	59.1	5540
5520	4.8	82.6	1	1504.8	4864.3	35.0	51.1	5550
5530	4.8	83.4	1	1504.8	5000.0	51.7	59.9	5500
5540	4.8	83.3	1	1504.8	5000.0	47.6	53.3	5550
5550	4.8	83.3	1	1504.8	4784.6	35.0	51.5	5520
6000	0.0	85.7	1	1500.0	5000.0	61.2	61.4	5297
7000	9.3	82.5	1	1509.3	5000.0	69.6	68.6	3060
7005	9.3	82.7	1	1509.3	5000.0	69.2	68.6	3060
7010	26.2	82.9	1	1526.2	5000.0	68.9	68.5	7140
7015	18.5	83.1	1	1518.5	5000.0	68.4	68.1	7025
7020	13.8	83.3	1	1513.8	5000.0	68.2	67.4	7025
7025	5.9	82.1	1	1505.9	5000.0	66.6	66.8	7030

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7030	13.8	82.2	1	1513.8	5000.0	66.6	66.7	9320
7035	23.3	82.7	1	1523.3	5000.0	65.9	66.8	9380
7040	1.0	83.3	1	1501.0	5000.0	66.2	66.3	9380
7045	0.0	83.4	1	1500.0	5000.0	66.3	65.9	9380
7050	10.9	83.7	1	1510.9	5000.0	66.5	66.0	9380
7055	10.9	83.8	1	1510.9	5000.0	66.6	66.3	9380
7060	0.0	84.4	1	1500.0	5000.0	67.2	66.8	9380
7070	0.0	83.9	1	1500.0	5000.0	66.2	66.3	8775
7080	2.0	83.7	1	1502.0	5000.0	63.5	63.9	7525
7100	9.9	82.1	1	1509.9	4350.5	35.0	70.4	3060
7110	7.4	82.8	1	1507.4	3550.2	35.0	44.6	7140
7120	11.7	83.0	1	1511.7	5000.0	45.5	48.7	7150
7130	12.4	83.4	1	1512.4	4714.4	35.0	54.5	7160
7140	7.4	82.3	1	1507.4	2561.4	35.0	63.6	7110
7150	11.7	82.8	1	1511.7	4332.0	35.0	50.8	7140
7160	12.4	83.6	1	1512.4	3583.8	35.0	65.8	7130
7200	7.9	82.1	1	1507.9	5000.0	63.9	64.4	7210
7210	7.3	82.1	1	1507.3	5000.0	63.3	64.5	7200
7300	2.1	82.3	1	1502.1	4207.2	35.0	53.6	7340
7310	6.2	82.4	1	1506.2	5000.0	41.8	55.8	7300
7320	6.2	82.6	1	1506.2	5000.0	43.4	49.5	7330
7330	5.2	82.3	1	1505.2	4413.6	35.0	57.6	7320
7340	5.2	82.7	1	1505.2	5000.0	35.5	41.4	7300
7350	6.2	83.0	1	1506.2	5000.0	46.0	54.3	7370
7360	7.8	83.3	1	1507.8	3947.9	35.0	56.8	7380
7370	6.2	82.8	1	1506.2	5000.0	38.7	51.9	7410
7380	7.8	83.1	1	1507.8	3577.9	35.0	56.7	7425
7390	1.9	82.8	1	1501.9	1279.6*	35.0	55.5	7425
7400	12.1	82.5	1	1512.1	4858.7	35.0	48.2	7405
7405	12.1	82.0	1	1512.1	2143.1	35.0	74.8	7400
7410	21.9	82.4	1	1521.9	5000.0	39.0	52.1	7405
7415	13.1	83.0	1	1513.1	3425.0	35.0	34.5	7425
7420	15.1	82.7	1	1515.1	1779.2	35.0	34.8	7425
7425	6.7	82.5	1	1506.7	1082.1*	35.0	35.5	7450
7430	12.1	82.5	1	1512.1	4741.9	35.0	47.7	7435
7435	12.1	82.1	1	1512.1	2142.0	35.0	74.3	7430
7440	20.0	82.3	1	1520.0	5000.0	39.2	51.5	7435
7445	14.8	82.9	1	1514.8	3425.4	35.0	57.5	7425
7450	9.1	83.0	1	1509.1	822.3*	35.0	53.2	7425
7455	12.1	82.5	1	1512.1	4763.8	35.0	47.4	7460

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	Zone @JCT Number
7460	12.1	82.2	1	1512.1	2146.8	35.0	74.2	7455
7465	19.6	82.5	1	1519.6	5000.0	41.2	52.1	7460
7470	14.8	82.9	1	1514.8	3571.1	35.0	57.8	7445
7475	0.4	83.5	1	1500.4	1448.4*	35.0	71.6	7500
7480	13.8	82.6	1	1513.8	5000.0	35.3	46.9	7485
7485	12.1	82.2	1	1512.1	2151.2	35.0	74.5	7480
7490	24.9	82.6	1	1524.9	5000.0	45.4	54.1	7485
7495	20.6	82.9	1	1520.6	4593.4	35.0	55.0	7470
7500	10.8	83.5	1	1510.8	3307.1	34.7	34.6	7475
7505	4.3	82.7	1	1504.3	5000.0	40.7	48.4	7480
7510	8.7	82.6	1	1508.7	4812.8	35.0	53.6	7530
7515	8.7	82.9	1	1508.7	5000.0	49.1	55.8	7490
7520	8.7	83.3	1	1508.7	5000.0	48.1	59.8	7495
7525	6.0	83.7	1	1506.0	5000.0	63.5	63.9	7080
7530	4.3	83.1	1	1504.3	4085.9	35.0	56.8	7555
7535	8.7	83.3	1	1508.7	4610.0	35.0	61.2	7565
7540	8.7	83.5	1	1508.7	4746.5	35.0	61.9	7570
7545	4.3	83.7	1	1504.3	5000.0	62.9	64.9	7525
7550	8.7	83.0	1	1508.7	5000.0	38.6	55.6	7505
7555	8.7	83.2	1	1508.7	4196.1	35.0	55.3	7530
7560	8.7	83.4	1	1508.7	5000.0	37.0	52.5	7577
7565	17.3	83.6	1	1517.3	4207.8	35.0	57.1	7590
7570	17.3	83.8	1	1517.3	4419.1	35.0	63.7	7595
7573	8.7	84.3	1	1508.7	5000.0	51.8	58.9	7550
7575	8.7	84.1	1	1508.7	5000.0	63.1	65.5	7545
7577	8.7	83.5	1	1508.7	5000.0	46.2	51.0	7560
7580	0.0	83.6	1	1500.0	5000.0	56.7	57.1	7605
7585	8.7	83.7	1	1508.7	5000.0	44.6	55.3	7577
7590	16.4	83.9	1	1516.4	3327.2	35.0	66.2	7565
7595	16.4	84.1	1	1516.4	4486.3	35.0	62.2	7590
7600	8.2	84.4	1	1508.2	5000.0	64.8	66.4	7575
7605	6.6	84.0	1	1506.6	2396.5	35.0	75.2	7580
7610	7.7	84.1	1	1507.7	5000.0	50.4	58.9	7615
7615	15.5	84.2	1	1515.5	4042.4	35.0	66.8	7620
7620	15.7	84.4	1	1515.7	5000.0	46.7	57.5	7615
7625	7.9	84.6	1	1507.9	5000.0	68.3	68.2	3220
7700	15.5	84.3	1	1515.5	5000.0	69.2	68.1	3220
7705	14.7	84.7	1	1514.7	2228.6	35.0	75.8	3060
7710	14.6	85.1	1	1514.6	5000.0	51.2	60.8	7705
7715	7.7	85.1	1	1507.7	4537.4	35.0	67.3	7735

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7720	22.3	84.7	1	1522.3	5000.0	68.9	68.1	3220
7725	16.5	85.0	1	1516.5	2248.8	35.0	75.7	3060
7730	13.1	85.1	1	1513.1	5000.0	47.8	57.6	7735
7735	6.7	85.2	1	1506.7	2212.0	35.0	75.8	3060
7740	12.9	84.9	1	1512.9	5000.0	68.8	68.1	3220
7745	12.5	85.2	1	1512.5	5000.0	43.4	67.4	7750
7750	17.2	85.1	1	1517.2	5000.0	55.1	63.3	7770
7755	13.4	85.1	1	1513.4	5000.0	44.1	47.3	8700
7760	21.0	85.0	1	1521.0	5000.0	66.3	68.1	3220
7765	22.4	85.1	1	1522.4	2217.8	35.0	75.8	3060
7770	22.1	85.1	1	1522.1	5000.0	47.1	58.7	7765
7775	9.7	85.2	1	1509.7	3069.5	35.0	73.0	7755
7780	20.8	85.1	1	1520.8	5000.0	65.7	67.1	7805
7785	23.9	85.1	1	1523.9	2238.1	35.0	75.8	3060
7790	23.5	85.1	1	1523.5	5000.0	46.4	57.9	7785
7795	8.3	85.3	1	1508.3	3074.6	35.0	73.7	3060
7800	3.6	85.1	1	1503.6	5000.0	66.3	67.5	7805
7805	1.2	85.2	1	1501.2	5000.0	65.7	67.1	7780
7810	1.2	85.2	1	1501.2	2348.3	35.0	49.6	7815
7815	1.5	85.2	1	1501.5	2471.3	35.0	45.3	7810
7820	4.0	85.2	1	1504.0	5000.0	51.5	62.3	7815
7825	2.5	86.2	1	1502.5	5000.0	58.9	63.2	7915
7830	6.2	85.4	1	1506.2	5000.0	56.1	62.3	7835
7835	2.0	85.3	1	1502.0	2244.2	35.0	75.8	3060
7840	4.6	85.4	1	1504.6	5000.0	55.7	62.6	7835
7845	3.6	85.6	1	1503.6	5000.0	65.1	65.1	7937
7850	5.7	85.5	1	1505.7	5000.0	45.1	53.3	7855
7855	3.2	85.4	1	1503.2	3725.5	35.0	42.2	7860
7860	3.1	85.6	1	1503.1	3692.4	35.0	43.3	7855
7865	3.1	85.6	1	1503.1	4329.8	35.0	35.1	7870
7870	5.2	85.7	1	1505.2	2833.1	35.0	60.9	7865
7900	14.7	85.2	1	1514.7	5000.0	67.5	68.1	14135
7905	12.9	85.1	1	1512.9	5000.0	60.9	66.6	7910
7910	12.3	85.2	1	1512.3	5000.0	63.6	65.7	7820
7915	2.5	85.3	1	1502.5	5000.0	62.8	62.9	7917
7917	0.0	85.5	1	1500.0	1450.4*	35.0	77.1	3060
7920	6.3	85.3	1	1506.3	5000.0	65.6	67.1	7925
7925	6.2	85.2	1	1506.2	5000.0	60.6	67.0	7930
7930	6.2	85.3	1	1506.2	5000.0	64.3	66.5	7925
7935	4.6	85.5	1	1504.6	5000.0	65.2	66.4	7915

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Fire Flow Needed (gpm)	Fire Flow Available (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7937	0.3	85.6	1	1500.3	4299.0	35.0	69.1	7845
7940	13.3	85.4	1	1513.3	5000.0	64.3	66.7	7945
7945	13.3	85.4	1	1513.3	5000.0	60.9	67.0	7940
7950	10.2	85.5	1	1510.2	5000.0	66.5	67.0	7865
7955	5.6	85.6	1	1505.6	5000.0	67.4	67.7	7950
8000	8.7	85.5	1	1508.7	4198.8	35.0	41.7	8005
8005	10.1	85.5	1	1510.1	1987.9	35.0	63.9	8010
8010	8.3	85.6	1	1508.3	2286.1	35.0	35.0	8015
8015	2.6	85.6	1	1502.6	972.1*	35.0	73.5	8010
8020	8.7	85.6	1	1508.7	4802.1	35.0	37.2	8000
8025	10.5	85.6	1	1510.5	2068.7	35.0	68.0	8035
8030	13.4	85.6	1	1513.4	2773.1	35.0	34.7	8035
8035	7.3	85.4	1	1507.3	1168.6*	35.0	73.5	8030
8040	16.1	85.7	1	1516.1	5000.0	52.0	53.0	8045
8045	16.1	85.7	1	1516.1	5000.0	42.9	46.2	8050
8050	13.6	85.9	1	1513.6	5000.0	38.9	40.5	8055
8055	5.6	86.2	1	1505.6	4663.3	35.0	41.1	8200
8060	13.0	85.8	1	1513.0	4288.9	35.0	35.1	8075
8065	9.3	85.8	1	1509.3	2744.7	35.0	43.4	8090
8070	12.4	86.0	1	1512.4	2458.6	35.0	64.7	8065
8075	10.4	86.0	1	1510.4	1410.4*	35.0	77.1	8060
8080	5.3	86.0	1	1505.3	2433.0	35.0	35.0	8085
8085	5.3	86.0	1	1505.3	883.7*	35.0	76.7	8080
8090	68.5	86.3	1	1568.5	2415.4	35.0	43.6	8140
8095	11.4	86.8	1	1511.4	2394.0	35.0	34.5	8140
8100	0.0	86.4	1	1500.0	2771.5	35.0	38.6	8105
8105	7.5	86.6	1	1507.5	2564.5	35.0	35.7	8145
8110	4.7	86.7	1	1504.7	2333.6	35.0	35.0	8145
8115	4.7	86.8	1	1504.7	2488.4	35.0	35.2	8125
8120	7.5	87.0	1	1507.5	2327.4	35.0	35.1	8130
8125	1.5	87.0	1	1501.5	2190.2	35.0	45.1	8115
8130	1.5	87.1	1	1501.5	2047.0	35.0	45.2	8120
8135	3.3	86.6	1	1503.3	2421.8	35.0	39.5	8140
8140	0.6	86.3	1	1500.6	2005.0	35.0	48.5	8095
8145	19.8	86.7	1	1519.8	1873.8	35.0	51.1	8110
8200	0.6	86.4	1	1500.6	3724.5	35.0	35.2	8205
8205	0.6	86.7	1	1500.6	1616.4	35.0	35.2	8210
8210	0.0	86.9	1	1500.0	1160.3*	35.0	57.8	8205
8215	8.9	86.8	1	1508.9	3404.0	35.0	41.2	8230
8220	14.2	87.2	1	1514.2	2154.3	35.0	70.4	8215

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8225	12.3	87.3	1	1512.3	4181.8	35.0	35.6	8240
8230	14.2	87.1	1	1514.2	3012.8	35.0	37.4	8250
8235	14.2	87.3	1	1514.2	2089.2	35.0	68.1	8230
8240	14.2	87.5	1	1514.2	3928.5	35.0	35.3	8265
8250	7.1	87.3	1	1507.1	2515.7	35.0	51.9	8255
8255	7.1	87.4	1	1507.1	2018.6	35.0	35.6	8270
8260	7.1	87.4	1	1507.1	2029.2	35.0	35.3	8295
8265	11.7	87.7	1	1511.7	3650.7	35.0	40.9	8260
8270	3.7	87.4	1	1503.7	1868.5	35.0	37.5	8275
8275	3.7	87.5	1	1503.7	1856.9	35.0	35.6	8280
8280	3.7	87.6	1	1503.7	1784.8	35.0	37.2	8285
8285	5.7	87.6	1	1505.7	1785.5	35.0	37.1	8280
8290	5.7	87.6	1	1505.7	1867.7	35.0	35.4	8285
8295	1.0	87.5	1	1501.0	1926.4	35.0	36.3	8290
8300	2.7	86.6	1	1502.7	4915.4	35.0	38.5	8310
8310	0.0	87.1	1	1500.0	4644.3	35.0	36.6	8320
8320	0.6	87.3	1	1500.6	4284.9	35.0	35.1	8360
8330	0.0	87.2	1	1500.0	2902.2	35.0	41.0	8350
8340	0.0	87.3	1	1500.0	2339.4	35.0	35.0	8350
8350	3.1	87.3	1	1503.1	1035.7*	35.0	74.4	8340
8360	0.0	87.4	1	1500.0	2144.5	35.0	35.0	8370
8370	0.0	87.4	1	1500.0	1624.5	35.0	55.2	8360
8380	4.6	87.0	1	1504.6	2094.8	35.0	63.0	8350
8400	5.1	85.2	1	1505.1	5000.0	60.1	66.3	8410
8410	0.4	85.3	1	1500.4	5000.0	52.0	53.6	8430
8420	0.0	85.3	1	1500.0	5000.0	59.5	59.6	8450
8430	0.4	85.2	1	1500.4	3476.6	35.0	40.3	8440
8440	0.7	85.3	1	1500.7	3092.4	35.0	35.1	8460
8450	0.6	85.4	1	1500.6	5000.0	48.5	56.9	8440
8460	0.8	85.4	1	1500.8	560.2*	35.0	35.1	8470
8470	0.8	85.5	1	1500.8	523.6*	35.0	40.8	8460
8500	0.8	85.2	1	1500.8	5000.0	61.8	63.6	8510
8510	1.1	85.4	1	1501.1	5000.0	59.8	59.8	8515
8515	0.0	85.4	1	1500.0	1677.2	35.0	77.0	3060
8520	0.6	85.7	1	1500.6	5000.0	57.7	57.5	8525
8525	4.8	85.5	1	1504.8	1662.7	35.0	76.9	3060
8530	0.2	85.7	1	1500.2	5000.0	57.2	58.9	8540
8540	2.1	85.7	1	1502.1	5000.0	57.3	58.9	8530
8550	16.0	86.1	1	1516.0	5000.0	59.0	58.7	8560
8560	15.8	85.7	1	1515.8	2519.9	35.0	75.1	3060

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8600	4.6	85.2	1	1504.6	4008.2	35.0	65.8	8610
8610	14.9	85.6	1	1514.9	4700.9	35.0	59.5	8600
8620	5.0	85.7	1	1505.0	4833.5	35.0	59.0	8600
8630	16.2	85.8	1	1516.2	4602.6	35.0	61.7	8650
8640	1.1	85.8	1	1501.1	4347.3	35.0	52.5	8660
8650	6.4	85.9	1	1506.4	4455.6	35.0	58.2	8640
8660	0.7	85.9	1	1500.7	4694.9	35.0	47.2	8640
8670	2.8	86.0	1	1502.8	4771.1	35.0	49.4	8660
8680	4.6	86.1	1	1504.6	4337.1	35.0	66.3	8560
8690	0.0	86.7	1	1500.0	5000.0	54.7	66.7	9910
8700	5.2	85.1	1	1505.2	5000.0	43.1	47.6	7755
8710	7.4	85.0	1	1507.4	1765.3	35.0	76.8	3060
8720	3.3	85.1	1	1503.3	1636.8	35.0	76.9	3060
8725	6.2	85.0	1	1506.2	1281.3*	35.0	77.4	3060
8730	3.8	85.1	1	1503.8	1396.7*	35.0	77.2	3060
8735	7.6	85.1	1	1507.6	1189.4*	35.0	77.6	3060
8740	5.4	84.6	1	1505.4	4992.9	35.0	35.3	8745
8745	5.4	85.0	1	1505.4	1004.7*	35.0	77.9	3060
8750	5.3	85.0	1	1505.3	4491.5	35.0	47.1	8740
8760	6.8	84.4	1	1506.8	4063.8	35.0	34.4	8770
8765	2.0	84.8	1	1502.0	1113.8*	35.0	77.6	8770
8770	1.5	83.8	1	1501.5	1145.2*	35.0	77.6	3060
8775	4.6	83.9	1	1504.6	5000.0	55.3	60.4	8770
8800	0.6	85.0	1	1500.6	1197.2*	35.0	77.5	3060
8810	7.3	85.2	1	1507.3	3637.5	35.0	60.8	8820
8820	8.7	85.2	1	1508.7	3404.7	35.0	56.6	8830
8830	2.9	85.2	1	1502.9	3006.0	35.0	44.2	8845
8840	1.0	85.0	1	1501.0	2023.4	35.0	35.0	8845
8845	1.0	85.0	1	1501.0	1672.6	35.0	49.4	8840
8850	1.3	84.8	1	1501.3	1942.4	35.0	59.7	8845
8900	9.8	85.6	1	1509.8	5000.0	64.2	65.1	9910
8910	17.8	85.4	1	1517.8	5000.0	61.2	62.7	8920
8920	8.0	85.3	1	1508.0	5000.0	59.1	60.5	8930
8930	4.9	85.2	1	1504.9	5000.0	56.4	58.0	8940
8940	0.3	85.1	1	1500.3	5000.0	54.6	57.7	8950
8950	0.3	85.0	1	1500.3	5000.0	54.2	57.9	8940
8960	1.8	84.5	1	1501.8	5000.0	58.1	58.4	9190
8970	1.2	84.5	1	1501.2	5000.0	59.0	61.2	8975
8975	3.3	84.5	1	1503.3	5000.0	57.9	60.1	8960
8980	40.7	84.4	1	1540.7	5000.0	61.5	63.7	8970

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9000	2.7	87.0	1	1502.7	5000.0	53.3	55.1	9010
9010	0.1	87.0	1	1500.1	5000.0	48.7	52.8	9685
9020	0.0	87.0	1	1500.0	5000.0	45.0	44.9	9685
9030	0.8	86.9	1	1500.8	5000.0	44.3	49.5	9685
9040	0.0	86.8	1	1500.0	5000.0	46.2	51.2	9050
9050	0.0	86.7	1	1500.0	5000.0	48.6	50.4	9060
9060	6.3	86.6	1	1506.3	5000.0	48.9	50.4	9050
9070	7.0	86.5	1	1507.0	5000.0	49.6	52.4	9060
9080	7.0	86.1	1	1507.0	5000.0	49.9	53.0	9070
9090	3.6	85.9	1	1503.6	5000.0	50.6	52.5	9100
9100	7.8	85.8	1	1507.8	5000.0	51.0	52.4	9090
9110	0.0	85.6	1	1500.0	5000.0	50.1	49.9	9115
9115	3.1	85.4	1	1503.1	4400.9	35.0	56.6	9110
9120	2.9	85.4	1	1502.9	5000.0	49.2	52.5	9910
9130	2.9	85.1	1	1502.9	5000.0	46.3	46.1	9910
9140	1.1	84.8	1	1501.1	5000.0	41.1	39.4	9910
9150	6.2	84.8	1	1506.2	5000.0	45.9	45.8	9910
9160	0.0	84.8	1	1500.0	5000.0	47.4	49.0	9910
9170	0.0	84.8	1	1500.0	5000.0	49.4	50.1	9160
9175	5.0	85.1	1	1505.0	3691.2	35.0	57.6	9505
9180	0.0	84.8	1	1500.0	5000.0	51.3	55.1	9170
9190	0.0	84.5	1	1500.0	5000.0	56.7	58.7	8960
9200	5.5	84.4	1	1505.5	4394.2	35.0	49.3	9210
9210	5.5	84.5	1	1505.5	4089.1	35.0	50.1	9240
9220	4.8	84.1	1	1504.8	5000.0	35.2	54.5	9230
9230	7.0	84.1	1	1507.0	5000.0	43.5	47.7	9240
9240	2.6	84.3	1	1502.6	4447.2	35.0	43.7	9210
9250	5.0	83.7	1	1505.0	5000.0	36.8	57.0	9260
9260	7.3	83.9	1	1507.3	5000.0	47.5	55.7	9250
9270	4.8	83.4	1	1504.8	4621.6	35.0	54.9	9280
9280	6.4	83.5	1	1506.4	5000.0	42.0	42.7	9340
9300	0.0	82.4	1	1500.0	4310.9	35.0	48.4	9310
9310	0.0	82.5	1	1500.0	4346.3	35.0	47.7	9300
9320	2.8	82.1	1	1502.8	4383.4	35.0	59.5	9330
9330	14.7	82.3	1	1514.7	5000.0	37.9	45.6	9310
9333	2.3	82.4	1	1502.3	5000.0	36.8	42.2	9800
9337	3.4	82.4	1	1503.4	4661.2	35.0	39.2	9810
9340	5.4	83.2	1	1505.4	5000.0	37.4	39.2	9345
9345	3.5	83.2	1	1503.5	3934.5	35.0	46.3	9355
9350	6.3	82.8	1	1506.3	4528.4	35.0	41.3	9355

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9355	5.0	83.0	1	1505.0	4170.0	35.0	38.5	9365
9360	7.2	82.6	1	1507.2	4371.8	35.0	39.9	9380
9365	1.4	83.0	1	1501.4	3764.0	35.0	42.7	9385
9370	4.5	82.6	1	1504.5	4423.0	35.0	35.6	9380
9375	5.9	82.6	1	1505.9	3848.7	35.0	38.1	9385
9380	5.3	82.4	1	1505.3	3780.0	35.0	43.8	9390
9385	1.5	82.6	1	1501.5	3710.0	35.0	41.4	9375
9390	6.2	82.5	1	1506.2	3444.3	35.0	35.0	9395
9395	3.5	82.6	1	1503.5	2739.9	35.0	50.8	9390
9400	11.3	81.6	1	1511.3	5000.0	63.0	63.0	9415
9410	0.0	82.0	1	1500.0	5000.0	47.6	47.2	9415
9415	1.5	81.6	1	1501.5	3837.8	35.0	44.9	9425
9420	8.3	82.4	1	1508.3	4497.4	35.0	35.4	9490
9425	1.5	81.6	1	1501.5	3786.6	35.0	45.9	9415
9430	0.0	82.9	1	1500.0	4003.9	35.0	35.0	9490
9440	22.3	82.9	1	1522.3	3565.7	35.0	35.0	9490
9460	3.7	81.4	1	1503.7	5000.0	63.5	63.8	9415
9470	2.9	81.4	1	1502.9	5000.0	64.0	64.0	9480
9480	0.0	81.4	1	1500.0	3912.0	35.0	69.1	9470
9490	6.7	82.9	1	1506.7	2639.8	35.0	54.7	9440
9500	7.7	85.4	1	1507.7	3316.0	35.0	65.2	9510
9505	2.8	85.6	1	1502.8	4466.1	35.0	44.4	9175
9510	12.1	85.6	1	1512.1	4061.7	35.0	35.1	9513
9513	0.0	85.8	1	1500.0	695.9*	35.0	78.4	3060
9515	7.9	85.7	1	1507.9	4504.7	35.0	46.4	9600
9520	13.7	85.8	1	1513.7	2205.0	35.0	74.7	9525
9525	4.3	85.8	1	1504.3	3913.1	35.0	49.1	9605
9530	13.2	86.0	1	1513.2	2219.1	35.0	75.6	9535
9535	10.8	86.0	1	1510.8	4147.3	35.0	50.4	9770
9540	12.3	86.1	1	1512.3	2208.6	35.0	75.9	3060
9545	17.1	86.2	1	1517.1	4477.5	35.0	49.7	9780
9550	0.0	86.0	1	1500.0	3019.6	35.0	69.8	9555
9555	7.5	86.2	1	1507.5	4229.4	35.0	46.6	9570
9560	15.0	86.4	1	1515.0	4782.3	35.0	46.5	9640
9565	228.7	86.2	1	1728.7	4789.6	35.0	50.2	9570
9570	0.0	86.3	1	1500.0	4508.9	35.0	36.8	9585
9580	0.2	86.7	1	1500.2	1587.9	35.0	77.0	3060
9585	6.2	86.4	1	1506.2	3791.4	35.0	50.8	9570
9590	4.1	86.5	1	1504.1	1962.3	35.0	35.0	9595
9595	1.1	86.6	1	1501.1	1801.4	35.0	35.2	9660

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9600	0.0	85.7	1	1500.0	4765.3	35.0	41.4	9505
9605	4.1	85.8	1	1504.1	3889.5	35.0	48.6	9750
9610	2.6	85.9	1	1502.6	4260.8	35.0	49.7	9760
9640	13.3	86.6	1	1513.3	4365.6	35.0	37.4	9590
9650	6.7	86.7	1	1506.7	3243.0	35.0	34.8	9590
9660	3.7	86.8	1	1503.7	842.6*	35.0	72.7	9595
9670	2.6	86.7	1	1502.6	3536.3	35.0	35.0	9675
9673	0.0	86.7	1	1500.0	4171.1	35.0	36.4	9675
9675	2.0	86.7	1	1502.0	1539.1	35.0	73.9	9670
9680	13.4	86.6	1	1513.4	3945.6	35.0	45.4	9673
9685	0.0	87.0	1	1500.0	3241.1	35.0	35.0	9688
9687	0.0	87.0	1	1500.0	1736.9	35.0	69.4	9685
9688	0.0	87.0	1	1500.0	1706.4	35.0	69.9	9685
9700	1.3	85.0	1	1501.3	3738.2	35.0	47.6	9710
9710	0.0	85.1	1	1500.0	3829.7	35.0	45.5	9700
9720	4.5	85.1	1	1504.5	5000.0	43.5	45.9	9730
9730	1.4	85.0	1	1501.4	5000.0	43.2	46.1	9720
9740	0.0	85.5	1	1500.0	3857.7	35.0	59.0	9600
9750	4.1	85.7	1	1504.1	2229.9	35.0	72.8	9605
9760	11.3	85.8	1	1511.3	3773.9	35.0	57.3	9610
9770	7.8	86.0	1	1507.8	2233.2	35.0	74.3	9535
9780	17.2	86.2	1	1517.2	2237.5	35.0	75.4	9545
9790	8.3	86.4	1	1508.3	2253.2	35.0	75.8	3060
9800	2.3	82.6	1	1502.3	4945.6	35.0	41.3	9810
9810	3.4	82.6	1	1503.4	4204.9	35.0	46.9	9337
9820	6.2	82.8	1	1506.2	4490.6	35.0	37.8	9830
9830	7.1	82.8	1	1507.1	3440.5	35.0	42.3	9850
9840	6.2	82.8	1	1506.2	4568.5	35.0	37.3	9850
9850	7.1	82.8	1	1507.1	3439.6	35.0	42.3	9830
9860	6.2	83.4	1	1506.2	5000.0	47.1	51.1	9840
9870	7.1	84.0	1	1507.1	4226.7	35.0	47.7	9880
9880	7.1	84.2	1	1507.1	4237.5	35.0	47.3	9870
9900	0.0	83.5	1	1500.0	4100.1	35.0	34.6	9910
9910	0.0	83.1	1	1500.0	3435.5	35.0	35.0	9920
9920	0.0	83.1	1	1500.0	3051.9	35.0	44.1	9910
10000	11.6	84.2	1	1511.6	5000.0	70.0	68.1	3220
10010	15.5	84.3	1	1515.5	5000.0	69.0	68.2	3220
10020	15.5	84.7	1	1515.5	5000.0	69.1	68.2	3220
10030	13.8	84.4	1	1513.8	5000.0	68.7	68.2	3220
10040	7.4	85.0	1	1507.4	5000.0	68.5	68.1	9910

\* Needed Fire Flow not attained.





## Fire Flow Summary.

JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
10050	10.0	85.1	1	1510.0	5000.0	68.2	67.8	9910
10060	7.7	85.1	1	1507.7	5000.0	68.0	67.6	9910
10070	0.0	85.2	1	1500.0	5000.0	67.9	67.3	9910
10080	4.6	85.2	1	1504.6	5000.0	67.8	67.2	9910
10090	0.3	85.2	1	1500.3	5000.0	67.5	66.8	9910
10100	5.7	85.2	1	1505.7	5000.0	67.2	66.5	9910
10110	5.8	85.2	1	1505.8	5000.0	67.0	66.3	9910
10115	3.2	85.2	1	1503.2	5000.0	66.9	66.2	9910
10120	5.2	85.7	1	1505.2	5000.0	67.1	65.9	9910
10130	5.4	85.8	1	1505.4	5000.0	67.1	65.9	9910
10140	10.3	85.9	1	1510.3	5000.0	67.1	65.9	9910
10150	0.0	86.1	1	1500.0	5000.0	67.1	66.0	9910
10160	29.4	86.2	1	1529.4	5000.0	67.1	66.0	9910
10170	6.1	86.3	1	1506.1	5000.0	67.2	66.2	9910
10180	1.8	86.5	1	1501.8	5000.0	67.4	66.2	9910
10185	21.7	86.5	1	1521.7	5000.0	67.4	66.2	9910
10190	2.8	86.9	1	1502.8	5000.0	68.1	66.4	9910
10195	0.0	86.8	1	1500.0	5000.0	67.9	66.7	9910
10200	18.2	86.5	1	1518.2	5000.0	68.2	67.0	9910
14100	23.3	85.8	1	1523.3	5000.0	67.5	67.5	9910
14110	6.2	80.0	1	1506.2	4277.8	35.0	52.2	4100
14110	9.3	80.0	1	1509.3	5000.0	42.5	42.4	14115
14115	3.1	79.9	1	1503.1	3108.7	35.0	62.9	14110
14120	6.2	80.1	1	1506.2	4273.7	35.0	52.4	4115
14130	9.3	80.0	1	1509.3	5000.0	42.4	42.3	14135
14135	3.1	79.9	1	1503.1	3144.8	35.0	62.6	14130
14140	5.4	80.3	1	1505.4	5000.0	36.8	41.6	14160
14150	3.9	80.2	1	1503.9	5000.0	40.5	50.7	14170
14160	8.5	80.4	1	1508.5	4201.8	35.0	52.7	14140
14170	8.5	80.3	1	1508.5	5000.0	39.6	46.9	4266
23000	0.5	86.6	1	1500.5	5000.0	60.4	60.1	5297
23010	0.0	86.6	1	1500.0	5000.0	59.2	59.1	5297
23020	0.0	87.9	1	1500.0	5000.0	57.0	57.4	23030
23030	0.0	88.4	1	1500.0	5000.0	54.4	54.8	23040
23040	1.5	88.8	1	1501.5	5000.0	51.3	54.4	23030
23050	0.0	86.6	1	1500.0	5000.0	58.3	58.1	5297
23060	0.0	87.0	1	1500.0	5000.0	58.2	57.1	5297
23070	6.5	87.3	1	1506.5	5000.0	56.7	55.5	5297
23100	0.0	87.9	1	1500.0	5000.0	56.1	55.3	5297
23110	52.5	87.4	1	1552.5	4940.2	35.0	41.7	23120

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	Peak Hour Demand (gpm)	Peak Hour Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
23120	3.3	87.2	1	1503.3	4589.8	35.0	40.5	5295
23200	0.0	87.0	1	1500.0	5000.0	40.8	40.7	5297
23210	0.0	87.0	1	1500.0	5000.0	45.0	45.6	5297
23220	0.0	87.7	1	1500.0	5000.0	51.0	50.6	5297
23230	6.5	88.1	1	1506.5	5000.0	49.8	51.6	23240
23240	7.7	88.3	1	1507.7	5000.0	45.0	47.2	23540
23400	0.0	87.0	1	1500.0	5000.0	55.2	57.3	23410
23410	0.0	87.0	1	1500.0	5000.0	54.0	57.5	23400
23420	0.0	87.5	1	1500.0	5000.0	55.3	57.2	23410
23500	0.0	87.9	1	1500.0	5000.0	50.4	51.9	23510
23510	0.0	87.9	1	1500.0	5000.0	45.0	47.2	23520
23520	0.0	87.9	1	1500.0	5000.0	42.8	45.8	23530
23530	0.0	87.9	1	1500.0	5000.0	42.1	45.9	23540
23540	0.0	88.1	1	1500.0	5000.0	42.9	43.1	23550
23550	0.0	88.3	1	1500.0	4462.5	35.0	50.6	23540









## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 7 (Figure 5.11)

#### Ultimate Water Distribution System for Average Day Demand of Maximum Demand Month

<b>Total Demand</b>	17,500 gpm	25.2 mgd
<b>Pump Station Discharge Rate:</b>		
Water Treatment Plant PS	17,500 gpm	
<b>Pump Discharge Head:</b>		
Water Treatment Plant PS	131.0 ft	56.8 psi
<b>Hydraulic Grade Elevation:</b>		
at Water Treatment Plant PS (El. 67 ft)	198.0 ft	56.8 psi
at Remote Pump Station (El. 60 ft)	188.4 ft	55.6 psi
at 3rd & Commercial (El. 50 ft)	188.7 ft	60.1 psi







# MAXIMUM DIMENSIONS

RUN-7

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	90001

Cybernet version 2.16c. SN: 1162130099-2000

## Extended Description:

## U N I T S   S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

## O U T P U T   O P T I O N   D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

## S Y S T E M   C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1447  
 NUMBER OF JUNCTION NODES .....(j) = 1074  
 NUMBER OF PRIMARY LOOPS .....(l) = 373  
 NUMBER OF BOUNDARY NODES .....(f) = 1  
 NUMBER OF SUPPLY ZONES .....(z) = 1

## \*\*\*\*\* S I M U L A T I O N   R E S U L T S \*\*\*\*\*

The results are obtained after 7 trials with an accuracy = 0.00129

## S I M U L A T I O N   D E S C R I P T I O N

CyberNet Version 2.16c. Copyright 1991,92 Haestad Methods Inc.  
 Run Description: ULTIMATE DISTRIBUTION SYSTEM FLOW = 17,000 GPM  
 Drawing: EC-ULTW1









## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1	0	20500	17575.96	0.02	0.00	0.00	1.99	0.33
5	10	5	-12756.32	0.90	0.00	0.00	5.79	5.31
10	10	15	5459.30	1.16	0.00	0.00	2.48	1.10
15	2420	15	-5328.67	0.28	0.00	0.00	2.42	1.05
17	2420	20	4595.89	0.75	0.00	0.00	2.09	0.80
20	20	30	4595.89	0.90	0.00	0.00	2.09	0.80
30	30	40	3438.88	0.27	0.00	0.00	1.56	0.47
40	40	50	3438.88	0.14	0.00	0.00	1.56	0.47
50	50	60	3092.30	0.67	0.00	0.00	2.19	1.14
60	60	70	2820.08	0.52	0.00	0.00	2.00	0.96
80	70	80	2622.87	0.75	0.00	0.00	1.86	0.84
90	80	90	2417.44	0.30	0.00	0.00	1.71	0.72
100	90	100	1632.23	0.11	0.00	0.00	1.16	0.35
205	5	210	1601.18	1.49	0.00	0.00	2.02	1.37
210	210	220	1545.89	1.75	0.00	0.00	1.95	1.28
220	220	230	652.48	0.34	0.00	0.00	0.82	0.26
240	230	240	1343.23	0.96	0.00	0.00	1.69	0.99
250	240	250	1343.23	1.05	0.00	0.00	1.69	0.99
260	250	260	1209.95	0.73	0.00	0.00	1.53	0.81
270	260	270	1015.11	0.21	0.00	0.00	1.28	0.59
280	270	280	947.83	0.12	0.00	0.00	1.19	0.52
290	280	300	946.20	0.29	0.00	0.00	1.19	0.52
305	300	305	795.59	0.23	0.00	0.00	1.00	0.37
310	305	310	716.23	0.10	0.00	0.00	0.90	0.31
315	310	315	667.58	0.09	0.00	0.00	0.84	0.27
320	315	320	-641.81	0.09	0.00	0.00	0.81	0.25
325	320	325	-598.72	0.21	0.00	0.00	0.75	0.22
330	325	330	-676.05	0.17	0.00	0.00	0.85	0.28
335	330	335	-775.68	0.06	0.00	0.00	0.98	0.36
340	335	90	-780.45	0.19	0.00	0.00	0.98	0.36
400	315	400	1202.16	0.27	0.00	0.00	1.52	0.80
405	400	405	490.38	0.24	0.00	0.00	1.39	1.10
410	405	410	413.44	0.22	0.00	0.00	1.17	0.80
415	410	415	355.65	0.12	0.00	0.00	1.01	0.61
420	415	420	401.89	0.28	0.00	0.00	1.14	0.76
425	420	425	351.38	0.20	0.00	0.00	1.00	0.59
430	425	430	351.67	0.12	0.00	0.00	1.00	0.60
435	430	435	315.51	0.09	0.00	0.00	0.89	0.49
440	435	440	308.24	0.17	0.00	0.00	0.87	0.47
445	440	445	281.72	0.09	0.00	0.00	0.80	0.39
450	445	450	298.41	0.07	0.00	0.00	0.85	0.44
455	450	455	263.70	0.13	0.00	0.00	0.75	0.35
457	455	457	-109.40	0.02	0.00	0.00	0.31	0.07



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
459	457	459	-117.34	0.05	0.00	0.00	0.33	0.08
460	460	459	131.46	0.04	0.00	0.00	0.37	0.10
465	460	465	-42.40	0.02	0.00	0.00	0.12	0.01
470	465	470	-326.89	0.10	0.00	0.00	0.93	0.52
475	470	475	-272.21	0.07	0.00	0.00	0.77	0.37
480	475	480	-313.77	0.09	0.00	0.00	0.89	0.48
485	480	485	-220.07	0.05	0.00	0.00	0.62	0.25
490	485	490	-437.01	0.33	0.00	0.00	1.24	0.89
495	490	495	-479.70	0.39	0.00	0.00	1.36	1.06
500	495	500	-496.85	0.39	0.00	0.00	1.41	1.13
505	500	505	-399.39	0.26	0.00	0.00	1.13	0.75
510	505	510	-451.70	0.35	0.00	0.00	1.28	0.95
515	510	100	-535.51	0.45	0.00	0.00	1.52	1.30
600	455	600	358.68	0.19	0.00	0.00	1.02	0.62
605	600	605	361.40	0.11	0.00	0.00	1.03	0.63
610	605	610	347.73	0.29	0.00	0.00	0.99	0.58
615	610	615	307.02	0.15	0.00	0.00	0.87	0.46
620	615	620	298.98	0.15	0.00	0.00	0.85	0.44
625	620	625	166.59	0.05	0.00	0.00	0.47	0.15
630	625	630	159.95	0.05	0.00	0.00	0.45	0.14
635	630	635	123.55	0.03	0.00	0.00	0.35	0.09
640	635	640	93.24	0.03	0.00	0.00	0.26	0.05
645	640	645	78.17	0.01	0.00	0.00	0.22	0.04
650	645	650	33.29	0.00	0.00	0.00	0.09	0.01
655	650	655	33.29	0.01	0.00	0.00	0.09	0.01
660	655	660	27.68	0.02	0.00	0.00	0.18	0.04
700	465	700	295.96	0.17	0.00	0.00	0.84	0.43
705	700	705	375.43	0.24	0.00	0.00	1.06	0.67
710	705	710	425.84	0.37	0.00	0.00	1.21	0.85
715	710	715	317.40	0.07	0.00	0.00	0.90	0.49
720	715	720	267.28	0.12	0.00	0.00	0.76	0.36
725	720	725	136.11	0.08	0.00	0.00	0.56	0.25
730	725	730	128.44	0.11	0.00	0.00	0.52	0.22
735	730	735	96.83	0.04	0.00	0.00	0.40	0.13
740	735	740	79.63	0.03	0.00	0.00	0.33	0.09
745	740	745	67.53	0.02	0.00	0.00	0.28	0.07
750	745	750	66.67	0.01	0.00	0.00	0.27	0.07
800	400	800	707.40	0.22	0.00	0.00	0.89	0.30
810	800	810	699.99	0.19	0.00	0.00	0.88	0.30
820	810	820	520.07	0.11	0.00	0.00	0.66	0.17
830	820	830	592.17	0.06	0.00	0.00	0.75	0.22
840	830	840	706.14	0.12	0.00	0.00	0.89	0.30
845	840	860	-67.15	0.00	0.00	0.00	0.19	0.03



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
850	840	850	768.70	0.17	0.00	0.00	0.97	0.35
860	850	5000	768.70	0.23	0.00	0.00	0.97	0.35
875	860	870	-268.39	0.22	0.00	0.00	0.76	0.36
880	870	880	-332.27	0.16	0.00	0.00	0.94	0.54
890	880	890	-398.65	0.22	0.00	0.00	1.13	0.75
895	890	3025	-482.26	0.34	0.00	0.00	1.37	1.07
900	420	900	42.32	0.01	0.00	0.00	0.12	0.01
910	900	910	34.12	0.01	0.00	0.00	0.10	0.01
920	910	920	185.69	0.12	0.00	0.00	0.53	0.18
930	920	5000	165.76	0.10	0.00	0.00	0.47	0.15
935	5000	935	140.97	0.01	0.00	0.00	0.40	0.11
940	935	940	163.63	0.06	0.00	0.00	0.46	0.14
950	940	950	160.69	0.06	0.00	0.00	0.46	0.14
960	950	960	232.94	0.08	0.00	0.00	0.66	0.28
970	960	970	130.53	0.06	0.00	0.00	0.37	0.09
980	970	980	178.05	0.04	0.00	0.00	0.51	0.17
1000	260	1000	-45.84	0.05	0.00	0.00	0.29	0.10
1010	1000	1010	-47.45	0.10	0.00	0.00	0.30	0.10
1015	1010	1015	-213.94	0.59	0.00	0.00	1.37	1.71
1020	1015	50	-210.69	1.19	0.00	0.00	1.34	1.66
1030	260	1030	-63.74	0.16	0.00	0.00	0.41	0.18
1040	1030	1040	46.40	0.02	0.00	0.00	0.30	0.10
1050	1040	1050	13.81	0.01	0.00	0.00	0.09	0.01
1060	1050	1060	-14.18	0.01	0.00	0.00	0.16	0.05
1070	1060	1070	-36.97	0.17	0.00	0.00	0.42	0.27
1080	1070	1080	-102.05	0.48	0.00	0.00	1.16	1.76
1090	1080	50	-131.82	1.14	0.00	0.00	1.50	2.83
1100	1015	1090	-11.19	0.02	0.00	0.00	0.13	0.03
1105	1090	1080	-19.13	0.03	0.00	0.00	0.22	0.08
1110	1000	1100	-14.61	0.04	0.00	0.00	0.17	0.05
1115	1100	1110	-19.69	0.04	0.00	0.00	0.22	0.08
1120	1010	1110	38.50	0.02	0.00	0.00	0.25	0.07
1125	1110	1050	11.47	0.00	0.00	0.00	0.07	0.01
1150	1040	1150	23.36	0.03	0.00	0.00	0.27	0.11
1155	1150	1155	0.33	0.00	0.00	0.00	0.00	0.00
1160	1155	1160	-6.83	0.01	0.00	0.00	0.08	0.01
1165	1050	1160	30.56	0.01	0.00	0.00	0.20	0.05
1170	1150	1170	13.47	0.01	0.00	0.00	0.15	0.04
1175	1170	1175	3.02	0.00	0.00	0.00	0.03	0.00
1180	1175	1180	-5.05	0.00	0.00	0.00	0.06	0.01
1185	1180	1185	-13.12	0.01	0.00	0.00	0.15	0.04
1190	1160	1185	14.49	0.00	0.00	0.00	0.09	0.01
1195	1185	1205	-8.77	0.00	0.00	0.00	0.06	0.00





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1200	1060	1200	11.70	0.01	0.00	0.00	0.13	0.03
1205	1200	1205	17.34	0.02	0.00	0.00	0.20	0.07
1210	1070	1210	53.43	0.14	0.00	0.00	0.61	0.53
1215	1210	1200	14.94	0.03	0.00	0.00	0.17	0.05
1220	1210	1220	28.58	0.05	0.00	0.00	0.32	0.17
1225	1220	1225	14.51	0.00	0.00	0.00	0.09	0.01
1230	1205	1225	-3.14	0.00	0.00	0.00	0.02	0.00
1240	1170	1240	5.37	0.00	0.00	0.00	0.06	0.01
1245	1175	1245	5.37	0.00	0.00	0.00	0.06	0.01
1250	1180	1250	5.37	0.00	0.00	0.00	0.06	0.01
1255	1185	1255	5.37	0.00	0.00	0.00	0.06	0.01
1260	1205	1260	4.59	0.00	0.00	0.00	0.05	0.01
1265	1225	1265	6.34	0.00	0.00	0.00	0.07	0.01
1270	1220	1270	6.34	0.00	0.00	0.00	0.07	0.01
1275	1030	1275	-112.76	0.24	0.00	0.00	0.72	0.52
1280	1275	250	-133.28	0.34	0.00	0.00	0.85	0.71
1300	270	1300	27.76	0.09	0.00	0.00	0.32	0.16
1305	1300	1305	-38.55	0.26	0.00	0.00	0.44	0.29
1310	1300	1310	54.13	0.03	0.00	0.00	0.35	0.13
1315	1310	1315	55.75	0.02	0.00	0.00	0.36	0.14
1320	1315	1320	-10.11	0.00	0.00	0.00	0.06	0.01
1325	1320	1305	-55.65	0.30	0.00	0.00	0.63	0.57
1327	300	1325	-101.57	0.02	0.00	0.00	0.29	0.06
1330	1315	1330	55.91	0.22	0.00	0.00	0.63	0.58
1335	1320	1335	31.15	0.07	0.00	0.00	0.35	0.20
1340	1325	1330	-117.00	0.02	0.00	0.00	0.33	0.08
1345	1330	1335	-69.45	0.16	0.00	0.00	0.44	0.21
1350	1335	1350	-109.13	0.30	0.00	0.00	0.70	0.49
1355	1350	70	-192.24	0.86	0.00	0.00	1.23	1.40
1360	60	1360	267.24	3.35	0.00	0.00	3.03	10.47
1365	1360	1365	89.08	0.74	0.00	0.00	1.01	1.37
1370	1360	1370	89.08	0.37	0.00	0.00	1.01	1.37
1375	1010	1305	110.81	0.19	0.00	0.00	0.71	0.50
1380	280	1310	1.63	0.00	0.00	0.00	0.00	0.00
1400	320	1403	-56.45	0.18	0.00	0.00	0.64	0.59
1404	1400	1403	41.55	0.11	0.00	0.00	0.47	0.33
1405	1400	1405	-27.39	0.05	0.00	0.00	0.31	0.15
1410	1405	1325	-10.46	0.01	0.00	0.00	0.12	0.03
1420	1400	1420	-23.85	0.06	0.00	0.00	0.27	0.12
1425	1420	1425	-21.34	0.04	0.00	0.00	0.24	0.10
1430	1425	1430	-22.76	0.07	0.00	0.00	0.26	0.11
1435	1405	1435	-27.02	0.14	0.00	0.00	0.31	0.15
1440	1435	1440	-25.60	0.08	0.00	0.00	0.29	0.14



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1445	1420	1445	-7.76	0.01	0.00	0.00	0.09	0.01
1450	1445	1450	-27.51	0.09	0.00	0.00	0.31	0.16
1455	1403	1455	-22.37	0.06	0.00	0.00	0.25	0.11
1460	1455	1460	-25.99	0.05	0.00	0.00	0.29	0.14
1465	1460	1465	-26.52	0.09	0.00	0.00	0.30	0.15
1470	1455	1470	-1.62	0.00	0.00	0.00	0.04	0.01
1475	1470	1475	-32.34	0.12	0.00	0.00	0.37	0.21
1480	325	1470	-64.24	0.03	0.00	0.00	0.41	0.18
1485	1470	1460	-38.50	0.05	0.00	0.00	0.44	0.29
1490	1460	1445	-45.57	0.07	0.00	0.00	0.52	0.40
1495	1445	1425	-30.80	0.03	0.00	0.00	0.35	0.19
1500	1425	1435	-37.76	0.09	0.00	0.00	0.43	0.28
1505	1435	1335	-54.38	0.04	0.00	0.00	0.35	0.14
1510	330	1475	14.94	0.01	0.00	0.00	0.17	0.05
1515	1475	1465	-17.40	0.01	0.00	0.00	0.20	0.07
1520	1465	1450	-47.59	0.07	0.00	0.00	0.54	0.43
1525	1450	1430	-12.37	0.01	0.00	0.00	0.14	0.04
1530	1430	1440	-40.63	0.10	0.00	0.00	0.46	0.32
1535	1350	1440	73.57	0.25	0.00	0.00	0.83	0.96
1540	1450	1540	-66.39	0.07	0.00	0.00	0.42	0.20
1545	1540	80	-85.13	0.40	0.00	0.00	0.97	1.26
1600	400	1600	-3.86	0.00	0.00	0.00	0.04	0.00
1605	1600	1605	-8.65	0.01	0.00	0.00	0.10	0.02
1610	415	1610	-108.09	0.44	0.00	0.00	0.69	0.48
1615	1610	1615	-51.92	0.09	0.00	0.00	0.59	0.50
1620	1615	1605	-30.83	0.07	0.00	0.00	0.35	0.19
1622	1610	1620	-61.17	0.07	0.00	0.00	0.39	0.17
1624	1620	1625	-99.14	0.08	0.00	0.00	0.63	0.41
1625	1615	1625	-25.81	0.06	0.00	0.00	0.29	0.14
1627	1625	1630	-116.28	0.19	0.00	0.00	0.74	0.55
1630	1605	1630	-48.99	0.18	0.00	0.00	0.56	0.45
1635	1630	1635	-145.10	0.28	0.00	0.00	0.93	0.83
1637	1635	325	-123.10	0.10	0.00	0.00	0.79	0.61
1640	1620	1640	-40.06	0.05	0.00	0.00	0.26	0.08
1645	1625	1645	-20.72	0.05	0.00	0.00	0.24	0.09
1650	1630	1650	-32.22	0.12	0.00	0.00	0.37	0.21
1655	1635	1655	-30.46	0.11	0.00	0.00	0.35	0.19
1660	1640	505	-27.00	0.10	0.00	0.00	0.31	0.15
1665	1647	510	-35.17	0.17	0.00	0.00	0.40	0.24
1670	1653	100	-50.92	0.33	0.00	0.00	0.58	0.49
1675	1640	1645	-49.46	0.09	0.00	0.00	0.56	0.46
1680	1645	1647	-77.51	0.20	0.00	0.00	0.88	1.06
1685	1647	1650	-46.12	0.07	0.00	0.00	0.52	0.40



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1690	1650	1653	-85.67	0.22	0.00	0.00	0.97	1.27
1695	1653	1655	-38.45	0.05	0.00	0.00	0.44	0.29
1697	1655	330	-72.58	0.15	0.00	0.00	0.82	0.94
1700	425	1700	-42.91	0.47	0.00	0.00	0.49	0.35
1702	1620	1702	78.03	0.37	0.00	0.00	0.89	1.07
1705	1700	495	-13.85	0.01	0.00	0.00	0.09	0.01
1710	1700	1702	-45.52	0.14	0.00	0.00	0.52	0.39
1715	1640	1705	32.47	0.07	0.00	0.00	0.37	0.21
1720	1705	500	24.58	0.09	0.00	0.00	0.28	0.13
1750	435	1750	-0.08	0.00	0.00	0.00	0.00	0.00
1755	1750	1755	-19.47	0.10	0.00	0.00	0.22	0.08
1760	1755	490	-39.06	0.20	0.00	0.00	0.44	0.30
1770	440	1770	19.44	0.01	0.00	0.00	0.12	0.02
1775	1770	1775	-8.04	0.00	0.00	0.00	0.05	0.00
1780	1775	1780	-95.08	0.05	0.00	0.00	0.27	0.05
1785	1780	485	-236.36	0.11	0.00	0.00	0.67	0.29
1790	445	1790	-18.78	0.05	0.00	0.00	0.21	0.08
1795	1790	1770	-20.88	0.02	0.00	0.00	0.24	0.09
1800	460	1800	-197.45	0.08	0.00	0.00	0.56	0.20
1805	1800	1805	-147.09	0.11	0.00	0.00	0.42	0.12
1810	1805	475	-40.01	0.00	0.00	0.00	0.11	0.01
1815	1805	1780	-131.76	0.04	0.00	0.00	0.37	0.10
1820	1800	1775	-75.51	0.10	0.00	0.00	0.48	0.25
1880	605	1880	0.71	0.00	0.00	0.00	0.01	0.00
1900	610	1900	-0.66	0.00	0.00	0.00	0.01	0.00
1902	1900	1945	-15.85	0.04	0.00	0.00	0.18	0.06
1905	615	1905	-0.16	0.00	0.00	0.00	0.00	0.00
1907	1905	1950	-7.31	0.01	0.00	0.00	0.08	0.01
1910	620	1910	-4.77	0.00	0.00	0.00	0.05	0.01
1912	1910	1955	-13.03	0.03	0.00	0.00	0.15	0.04
1915	625	1915	0.51	0.00	0.00	0.00	0.01	0.00
1917	1915	1960	-5.78	0.01	0.00	0.00	0.07	0.01
1920	635	1920	28.47	0.02	0.00	0.00	0.18	0.04
1925	1920	1925	-4.39	0.00	0.00	0.00	0.03	0.00
1927	1925	1965	-10.55	0.00	0.00	0.00	0.07	0.01
1930	1920	1930	21.25	0.01	0.00	0.00	0.14	0.02
1932	1930	1970	15.80	0.01	0.00	0.00	0.10	0.01
1935	460	1935	108.40	0.18	0.00	0.00	0.69	0.48
1937	1935	1975	-51.64	0.01	0.00	0.00	0.15	0.02
1940	1935	1940	147.64	0.31	0.00	0.00	0.94	0.86
1942	1940	1980	-8.56	0.01	0.00	0.00	0.10	0.02
1945	1940	1945	136.16	0.17	0.00	0.00	0.87	0.74
1950	1945	1950	114.29	0.18	0.00	0.00	0.73	0.53





CITY OF EL CENTRO WATER MASTER PLAN UPLAND  
P I P E L I N E R E S U L T S

RUN-7

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1952	1950	1990	-0.73	0.00	0.00	0.00	0.00	0.00
1955	1950	1955	94.73	0.13	0.00	0.00	0.60	0.38
1957	1955	1995	-5.70	0.01	0.00	0.00	0.06	0.01
1960	1955	1960	71.29	0.07	0.00	0.00	0.45	0.22
1962	1960	2000	-17.37	0.01	0.00	0.00	0.11	0.02
1965	1960	1965	69.40	0.10	0.00	0.00	0.44	0.21
1967	1965	2005	5.17	0.00	0.00	0.00	0.06	0.01
1970	1965	1970	34.21	0.02	0.00	0.00	0.22	0.06
1972	1970	655	21.25	0.01	0.00	0.00	0.14	0.02
1973	1970	2010	12.80	0.02	0.00	0.00	0.15	0.04
1975	1975	700	-60.65	0.02	0.00	0.00	0.17	0.02
1980	1980	705	-23.29	0.08	0.00	0.00	0.26	0.11
1982	1982	1985	-2.31	0.00	0.00	0.00	0.03	0.00
1985	1985	710	-55.88	0.01	0.00	0.00	0.16	0.02
1987	1985	1990	48.07	0.07	0.00	0.00	0.55	0.44
1990	1990	715	-7.15	0.01	0.00	0.00	0.08	0.01
1992	1990	1995	43.78	0.12	0.00	0.00	0.50	0.37
1995	1995	720	-7.73	0.01	0.00	0.00	0.09	0.01
1997	1995	2000	32.58	0.07	0.00	0.00	0.37	0.21
2000	2000	725	8.34	0.00	0.00	0.00	0.05	0.00
2005	2005	730	-4.34	0.00	0.00	0.00	0.05	0.01
2010	2010	735	3.29	0.00	0.00	0.00	0.04	0.00
2012	655	2015	16.34	0.04	0.00	0.00	0.19	0.06
2015	2015	740	6.83	0.01	0.00	0.00	0.08	0.01
2017	660	2020	18.17	0.04	0.00	0.00	0.21	0.07
2020	2020	745	8.66	0.01	0.00	0.00	0.10	0.02
2200	230	2200	933.55	0.40	0.00	0.00	1.18	0.50
2210	2200	2210	933.55	0.45	0.00	0.00	1.18	0.50
2220	2210	2220	933.55	0.23	0.00	0.00	1.18	0.50
2230	2220	2230	900.27	0.26	0.00	0.00	1.13	0.47
2300	2220	2300	33.27	0.02	0.00	0.00	0.21	0.05
2310	2300	2310	3.54	0.00	0.00	0.00	0.02	0.00
2320	2300	2320	1.57	0.00	0.00	0.00	0.01	0.00
2330	2300	2330	23.06	0.01	0.00	0.00	0.15	0.03
2340	2330	2340	3.54	0.00	0.00	0.00	0.02	0.00
2350	2330	2350	1.57	0.00	0.00	0.00	0.01	0.00
2360	2330	2360	12.84	0.00	0.00	0.00	0.08	0.01
2370	2360	2370	3.54	0.00	0.00	0.00	0.02	0.00
2380	2360	2380	1.57	0.00	0.00	0.00	0.01	0.00
2400	9470	2400	-502.30	0.13	0.00	0.00	0.63	0.16
2410	2400	2410	-502.30	0.11	0.00	0.00	0.63	0.16
2420	2410	2420	-502.30	0.10	0.00	0.00	0.63	0.16
2430	2420	2430	230.48	0.01	0.00	0.00	0.29	0.04





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
2440	2430	2440	-99.19	0.11	0.00	0.00	0.63	0.41
2445	2440	15	-130.63	0.18	0.00	0.00	0.83	0.68
2450	2440	2450	23.58	0.01	0.00	0.00	0.15	0.03
2460	2450	2460	7.86	0.00	0.00	0.00	0.05	0.00
2470	2450	2470	7.86	0.00	0.00	0.00	0.05	0.00
3000	300	3000	258.72	0.16	0.00	0.00	0.73	0.34
3005	3000	3005	196.40	0.05	0.00	0.00	0.56	0.20
3010	3005	3010	181.53	0.10	0.00	0.00	0.51	0.17
3015	3010	3015	142.45	0.07	0.00	0.00	0.40	0.11
3017	3540	3010	-50.60	0.15	0.00	0.00	0.57	0.48
3020	3015	3020	136.24	0.04	0.00	0.00	0.39	0.10
3025	3020	3025	94.48	0.02	0.00	0.00	0.27	0.05
3030	3025	3030	-680.92	0.43	0.00	0.00	1.93	2.02
3035	3030	3035	-690.38	0.20	0.00	0.00	0.87	0.29
3040	3035	3040	-690.38	0.17	0.00	0.00	0.87	0.29
3045	3040	3045	443.80	0.39	0.00	0.00	1.26	0.92
3050	3045	3050	308.92	0.22	0.00	0.00	0.88	0.47
3055	3050	3055	308.92	0.16	0.00	0.00	0.88	0.47
3060	3055	3060	301.12	0.13	0.00	0.00	0.85	0.45
3065	3025	3065	290.52	0.21	0.00	0.00	0.82	0.42
3070	3065	3070	286.59	0.17	0.00	0.00	0.81	0.41
3075	3070	3075	257.89	0.24	0.00	0.00	0.73	0.34
3080	3075	3080	252.65	0.09	0.00	0.00	0.72	0.32
3100	300	3100	-22.38	0.04	0.00	0.00	0.25	0.11
3105	3100	3105	0.42	0.00	0.00	0.00	0.00	0.00
3110	3100	3110	-22.80	0.06	0.00	0.00	0.26	0.11
3115	3110	3115	-24.90	0.05	0.00	0.00	0.28	0.13
3120	270	3115	134.99	0.25	0.00	0.00	0.86	0.73
3122	270	260	-103.34	0.21	0.00	0.00	0.66	0.44
3125	260	3130	147.00	0.48	0.00	0.00	0.94	0.85
3130	3115	3270	106.95	0.19	0.00	0.00	0.68	0.47
3140	3130	3140	56.19	0.08	0.00	0.00	0.36	0.14
3145	3140	3145	48.59	0.03	0.00	0.00	0.31	0.11
3147	3145	3147	7.86	0.00	0.00	0.00	0.05	0.00
3150	3130	3150	77.06	0.09	0.00	0.00	0.49	0.26
3152	3245	3150	-35.58	0.09	0.00	0.00	0.40	0.25
3155	3150	3145	27.72	0.02	0.00	0.00	0.18	0.04
3200	3200	3205	11.23	0.01	0.00	0.00	0.13	0.03
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	7.58	0.00	0.00	0.00	0.09	0.01
3210	3205	3215	4.87	0.01	0.00	0.00	0.06	0.01
3215	3215	3220	3.12	0.00	0.00	0.00	0.04	0.00
3217	3235	3215	9.64	0.00	0.00	0.00	0.06	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3220	3145	3225	60.86	0.06	0.00	0.00	0.39	0.17
3225	3225	3230	34.27	0.03	0.00	0.00	0.22	0.06
3227	3225	3200	16.68	0.02	0.00	0.00	0.19	0.06
3230	3230	3235	6.11	0.01	0.00	0.00	0.07	0.01
3233	3252	3230	-5.44	0.00	0.00	0.00	0.06	0.01
3235	3235	3240	3.12	0.00	0.00	0.00	0.04	0.00
3237	3257	3235	18.04	0.01	0.00	0.00	0.12	0.02
3245	3250	3245	-13.52	0.02	0.00	0.00	0.15	0.04
3247	3245	3247	13.70	0.01	0.00	0.00	0.16	0.04
3249	3247	3252	8.51	0.01	0.00	0.00	0.10	0.02
3250	3250	3255	-18.77	0.02	0.00	0.00	0.12	0.02
3251	3280	3250	-17.24	0.02	0.00	0.00	0.20	0.07
3252	3252	3257	0.60	0.00	0.00	0.00	0.00	0.00
3254	3250	3252	0.12	0.00	0.00	0.00	0.00	0.00
3255	3255	3040	-153.71	0.41	0.00	0.00	0.98	0.93
3257	3255	3257	31.96	0.02	0.00	0.00	0.20	0.05
3259	3257	3259	3.12	0.00	0.00	0.00	0.02	0.00
3260	3005	3260	8.90	0.01	0.00	0.00	0.10	0.02
3262	3260	3262	2.31	0.00	0.00	0.00	0.03	0.00
3264	3260	3295	22.61	0.06	0.00	0.00	0.26	0.11
3265	3260	3265	-24.61	0.04	0.00	0.00	0.28	0.13
3267	3265	3267	2.31	0.00	0.00	0.00	0.03	0.00
3269	3265	3290	15.71	0.03	0.00	0.00	0.18	0.06
3270	3265	3270	-51.22	0.14	0.00	0.00	0.58	0.49
3273	3275	3280	11.37	0.02	0.00	0.00	0.13	0.03
3274	3270	3285	25.09	0.08	0.00	0.00	0.28	0.13
3275	3270	3275	22.26	0.03	0.00	0.00	0.25	0.10
3277	3275	3277	2.31	0.00	0.00	0.00	0.03	0.00
3280	3280	3285	22.32	0.03	0.00	0.00	0.25	0.11
3285	3285	3290	41.11	0.10	0.00	0.00	0.47	0.33
3290	3290	3295	34.71	0.07	0.00	0.00	0.39	0.24
3295	3295	3010	21.60	0.03	0.00	0.00	0.25	0.10
3297	3295	3300	18.69	0.07	0.00	0.00	0.21	0.08
3300	3020	3300	-67.31	0.06	0.00	0.00	0.43	0.20
3305	3300	3305	-59.36	0.04	0.00	0.00	0.38	0.16
3310	3305	3310	3.41	0.00	0.00	0.00	0.02	0.00
3315	3305	3315	-69.76	0.07	0.00	0.00	0.45	0.21
3320	3315	3320	3.41	0.00	0.00	0.00	0.02	0.00
3325	3315	3325	-80.17	0.08	0.00	0.00	0.51	0.28
3330	3325	3330	3.41	0.00	0.00	0.00	0.02	0.00
3335	3255	3325	90.57	0.12	0.00	0.00	0.58	0.35
3400	3020	3400	100.22	0.13	0.00	0.00	0.64	0.42
3405	3400	3405	2.62	0.00	0.00	0.00	0.03	0.00



CITY OF EL CENTRO WATER MASTER PLAN UPLAND  
P I P E L I N E R E S U L T S

RUN-7

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3410	3400	3410	93.01	0.11	0.00	0.00	0.59	0.37
3415	3410	3415	2.62	0.00	0.00	0.00	0.03	0.00
3420	3410	3420	136.24	0.24	0.00	0.00	0.87	0.74
3425	3420	3425	2.62	0.00	0.00	0.00	0.03	0.00
3430	3420	3430	129.03	0.20	0.00	0.00	0.82	0.67
3435	3430	3435	2.62	0.00	0.00	0.00	0.03	0.00
3437	3430	830	121.83	0.18	0.00	0.00	0.78	0.60
3440	820	3440	-79.96	0.08	0.00	0.00	0.51	0.28
3445	810	3450	-57.91	0.19	0.00	0.00	0.66	0.62
3450	3440	3450	-87.82	0.22	0.00	0.00	0.56	0.33
3460	3460	3450	89.35	0.25	0.00	0.00	0.57	0.34
3467	3460	315	-96.76	0.25	0.00	0.00	0.62	0.39
3470	310	3470	39.01	0.18	0.00	0.00	0.44	0.30
3475	3450	3480	-70.04	0.26	0.00	0.00	0.79	0.88
3480	3470	3480	31.59	0.14	0.00	0.00	0.36	0.20
3490	3480	3490	-7.79	0.01	0.00	0.00	0.09	0.01
3500	3490	3500	-15.33	0.02	0.00	0.00	0.17	0.05
3505	3500	3410	52.39	0.04	0.00	0.00	0.33	0.13
3510	3500	3510	-53.93	0.09	0.00	0.00	0.34	0.13
3515	3480	3510	-44.31	0.12	0.00	0.00	0.50	0.38
3520	3510	3520	-73.46	0.20	0.00	0.00	0.47	0.24
3525	3520	305	-70.08	0.10	0.00	0.00	0.45	0.22
3530	3520	3530	-14.85	0.00	0.00	0.00	0.09	0.01
3535	3530	3000	-53.59	0.17	0.00	0.00	0.61	0.53
3540	3530	3540	27.99	0.14	0.00	0.00	0.32	0.16
3545	3510	3540	-33.37	0.07	0.00	0.00	0.38	0.22
3550	3540	3550	30.51	0.13	0.00	0.00	0.35	0.19
3555	3550	3500	22.65	0.03	0.00	0.00	0.26	0.11
3600	405	3600	68.75	0.14	0.00	0.00	0.44	0.21
3603	810	3605	224.18	0.07	0.00	0.00	0.64	0.26
3605	3600	3605	60.55	0.11	0.00	0.00	0.39	0.16
3610	410	3610	49.59	0.07	0.00	0.00	0.32	0.11
3613	3605	3615	274.25	0.11	0.00	0.00	0.78	0.38
3615	3610	3615	41.39	0.06	0.00	0.00	0.26	0.08
3620	415	3620	48.64	0.08	0.00	0.00	0.31	0.11
3623	3615	3625	307.44	0.13	0.00	0.00	0.87	0.46
3625	3620	3625	40.44	0.05	0.00	0.00	0.26	0.08
3627	3625	910	339.67	0.16	0.00	0.00	0.96	0.56
3630	425	3630	26.61	0.10	0.00	0.00	0.30	0.15
3633	910	3635	161.16	0.33	0.00	0.00	1.03	1.01
3635	3630	3635	18.41	0.05	0.00	0.00	0.21	0.07
3640	430	3640	36.16	0.04	0.00	0.00	0.23	0.06
3642	3635	3645	81.96	0.06	0.00	0.00	0.52	0.29





CITY OF EL CENTRO WATER MASTER PLAN UPLAND  
P I P E L I N E R E S U L T S

RUN-7

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3643	3640	3643	36.16	0.03	0.00	0.00	0.23	0.06
3645	3643	3645	36.16	0.01	0.00	0.00	0.23	0.06
3650	440	3650	2.38	0.00	0.00	0.00	0.03	0.00
3655	3650	440	-1.00	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	115.13	0.19	0.00	0.00	0.73	0.54
3667	3697	3665	-21.95	0.01	0.00	0.00	0.14	0.03
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	74.37	0.06	0.00	0.00	0.47	0.24
3677	3675	4510	74.37	0.08	0.00	0.00	0.47	0.24
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00
3685	3635	3685	77.60	0.17	0.00	0.00	0.50	0.26
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	71.81	0.09	0.00	0.00	0.46	0.23
3697	3695	3697	-7.25	0.00	0.00	0.00	0.05	0.00
3698	3695	3698	64.20	0.07	0.00	0.00	0.41	0.18
3699	3698	4520	64.20	0.07	0.00	0.00	0.41	0.18
4000	3045	4000	130.43	0.34	0.00	0.00	0.83	0.68
4010	4000	4010	84.64	0.18	0.00	0.00	0.54	0.31
4020	4010	4020	74.61	0.12	0.00	0.00	0.48	0.24
4025	4020	3070	97.96	0.15	0.00	0.00	0.63	0.40
4030	4020	4030	-33.39	0.03	0.00	0.00	0.21	0.05
4040	4030	4040	-45.44	0.04	0.00	0.00	0.29	0.10
4045	4040	3060	-52.36	0.06	0.00	0.00	0.33	0.13
4050	4000	4050	34.10	0.02	0.00	0.00	0.22	0.06
4060	4050	4060	29.10	0.01	0.00	0.00	0.19	0.04
4070	4060	4070	21.32	0.01	0.00	0.00	0.14	0.02
4080	4070	4080	6.88	0.00	0.00	0.00	0.04	0.00
4090	4080	3055	1.64	0.00	0.00	0.00	0.01	0.00
4100	4100	4105	-65.34	0.04	0.00	0.00	0.42	0.19
4103	3070	4105	116.19	0.18	0.00	0.00	0.74	0.55
4105	4105	4110	-69.62	0.09	0.00	0.00	0.44	0.21
4110	4110	890	-76.61	0.12	0.00	0.00	0.49	0.25
4115	4115	4120	-43.39	0.02	0.00	0.00	0.28	0.09
4120	4120	4125	-52.39	0.05	0.00	0.00	0.33	0.13
4123	4105	4120	108.23	0.14	0.00	0.00	0.69	0.48
4125	4125	880	-59.39	0.08	0.00	0.00	0.38	0.16
4130	4130	4135	-40.50	0.01	0.00	0.00	0.26	0.08
4133	4120	4135	105.00	0.14	0.00	0.00	0.67	0.46
4135	4135	4140	-41.35	0.03	0.00	0.00	0.26	0.08
4137	4135	4225	96.16	0.22	0.00	0.00	0.61	0.39
4140	4140	4145	-51.31	0.04	0.00	0.00	0.33	0.12
4145	4145	870	-61.26	0.03	0.00	0.00	0.39	0.17



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4150	4140	4150	3.67	0.00	0.00	0.00	0.02	0.00
4155	4145	4155	3.67	0.00	0.00	0.00	0.02	0.00
4200	860	4200	140.36	0.20	0.00	0.00	0.90	0.78
4205	4200	4205	103.65	0.13	0.00	0.00	0.66	0.45
4210	4205	4210	72.02	0.07	0.00	0.00	0.46	0.23
4215	4210	935	25.60	0.01	0.00	0.00	0.16	0.03
4220	860	4220	53.42	0.07	0.00	0.00	0.34	0.13
4225	4220	4225	45.95	0.04	0.00	0.00	0.29	0.10
4227	4225	4235	103.81	0.13	0.00	0.00	0.66	0.45
4230	4200	4230	30.86	0.02	0.00	0.00	0.20	0.05
4235	4230	4235	25.02	0.01	0.00	0.00	0.16	0.03
4237	4235	4245	99.82	0.12	0.00	0.00	0.64	0.42
4240	4205	4240	25.79	0.02	0.00	0.00	0.16	0.03
4245	4240	4245	19.95	0.01	0.00	0.00	0.13	0.02
4247	4245	4255	89.73	0.10	0.00	0.00	0.57	0.34
4250	4210	4250	40.58	0.04	0.00	0.00	0.26	0.08
4255	4250	4255	34.73	0.02	0.00	0.00	0.22	0.06
4257	4255	950	78.48	0.07	0.00	0.00	0.50	0.27
4260	4225	4260	18.92	0.01	0.00	0.00	0.12	0.02
4265	4260	4265	11.45	0.00	0.00	0.00	0.07	0.01
4266	4265	4266	-104.06	0.08	0.00	0.00	0.66	0.45
4267	4265	4275	102.57	0.13	0.00	0.00	0.65	0.44
4268	4265	4267	2.59	0.00	0.00	0.00	0.02	0.00
4270	4235	4270	16.54	0.01	0.00	0.00	0.11	0.01
4275	4270	4275	9.91	0.00	0.00	0.00	0.06	0.01
4277	4275	4285	100.08	0.12	0.00	0.00	0.64	0.42
4278	4275	4278	2.88	0.00	0.00	0.00	0.02	0.00
4280	4245	4280	17.57	0.01	0.00	0.00	0.11	0.02
4285	4280	4285	10.94	0.00	0.00	0.00	0.07	0.01
4287	4285	4295	104.40	0.14	0.00	0.00	0.67	0.45
4290	4255	4290	33.53	0.03	0.00	0.00	0.21	0.06
4295	4290	4295	26.93	0.02	0.00	0.00	0.17	0.04
4297	4295	970	124.73	0.17	0.00	0.00	0.80	0.63
4300	960	4300	95.66	0.12	0.00	0.00	0.61	0.38
4305	4300	4340	14.45	0.01	0.00	0.00	0.09	0.01
4310	4300	4310	74.27	0.07	0.00	0.00	0.47	0.24
4315	4310	4350	5.28	0.00	0.00	0.00	0.03	0.00
4320	4310	4320	62.04	0.05	0.00	0.00	0.40	0.17
4325	4320	4360	0.23	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	54.87	0.04	0.00	0.00	0.35	0.14
4335	4330	4370	-0.41	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	48.34	0.03	0.00	0.00	0.31	0.11
4340	970	4340	67.59	0.06	0.00	0.00	0.43	0.20



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4345	4340	4380	2.88	0.00	0.00	0.00	0.02	0.00
4350	4340	4350	69.33	0.06	0.00	0.00	0.44	0.21
4355	4350	4390	2.88	0.00	0.00	0.00	0.02	0.00
4360	4350	4360	61.90	0.05	0.00	0.00	0.40	0.17
4370	4360	4370	55.19	0.04	0.00	0.00	0.35	0.14
4375	4370	4590	47.84	0.03	0.00	0.00	0.31	0.11
4400	4550	4400	-28.34	0.02	0.00	0.00	0.18	0.04
4410	4400	4410	-33.19	0.02	0.00	0.00	0.21	0.05
4420	4410	4420	-43.01	0.04	0.00	0.00	0.27	0.09
4430	4420	4430	3.93	0.00	0.00	0.00	0.03	0.00
4440	4420	5020	-51.92	0.08	0.00	0.00	0.33	0.12
4500	450	4500	20.17	0.00	0.00	0.00	0.06	0.00
4510	4500	4510	3.59	0.00	0.00	0.00	0.01	0.00
4520	4510	4520	49.45	0.01	0.00	0.00	0.14	0.02
4530	4520	4530	61.72	0.01	0.00	0.00	0.18	0.02
4540	4530	5030	54.26	0.01	0.00	0.00	0.15	0.02
4545	5030	4540	17.42	0.00	0.00	0.00	0.02	0.00
4550	4540	4550	-36.19	0.00	0.00	0.00	0.05	0.00
4560	4550	4560	-52.93	0.00	0.00	0.00	0.07	0.00
4570	4560	4570	-89.26	0.00	0.00	0.00	0.11	0.01
4580	4570	4580	-43.23	0.00	0.00	0.00	0.05	0.00
4590	4580	4590	-45.53	0.00	0.00	0.00	0.06	0.00
4600	600	4600	-10.08	0.00	0.00	0.00	0.06	0.01
4610	4600	4610	-20.82	0.02	0.00	0.00	0.13	0.02
4620	4610	4620	-20.82	0.02	0.00	0.00	0.13	0.02
4630	4620	5040	-20.82	0.02	0.00	0.00	0.13	0.02
4700	610	4700	14.74	0.00	0.00	0.00	0.04	0.00
4710	4700	4710	12.54	0.00	0.00	0.00	0.04	0.00
4720	4710	4720	-83.87	0.03	0.00	0.00	0.24	0.04
4730	4720	4730	-102.78	0.01	0.00	0.00	0.29	0.06
4740	4730	4740	-138.55	0.05	0.00	0.00	0.39	0.11
4750	4740	4750	-158.22	0.02	0.00	0.00	0.45	0.14
4760	4750	5050	-163.46	0.07	0.00	0.00	0.46	0.14
4800	620	4800	128.32	0.01	0.00	0.00	0.36	0.09
4810	4800	4810	-73.35	0.14	0.00	0.00	0.47	0.24
4820	4810	4820	-63.48	0.08	0.00	0.00	0.41	0.18
4830	4820	4830	-63.48	0.08	0.00	0.00	0.41	0.18
4840	4830	4840	-27.72	0.02	0.00	0.00	0.18	0.04
4850	4810	4850	-19.69	0.00	0.00	0.00	0.06	0.00
4860	4840	5060	-27.72	0.03	0.00	0.00	0.18	0.04
4870	4710	4850	75.19	0.17	0.00	0.00	0.85	1.00
4880	4850	4870	55.28	0.28	0.00	0.00	0.63	0.57
4885	4830	4880	-35.76	0.03	0.00	0.00	0.23	0.06





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4890	4880	4730	-35.76	0.02	0.00	0.00	0.23	0.06
4900	4800	4900	154.75	0.09	0.00	0.00	0.44	0.13
4905	4900	630	-34.57	0.00	0.00	0.00	0.10	0.01
4910	4900	4910	125.34	0.03	0.00	0.00	0.36	0.09
4920	4910	4920	119.52	0.01	0.00	0.00	0.34	0.08
4930	4920	4930	80.08	0.02	0.00	0.00	0.23	0.04
4935	4930	640	-12.46	0.00	0.00	0.00	0.04	0.00
4940	4930	4940	91.70	0.02	0.00	0.00	0.26	0.05
4945	4940	4947	1.04	0.00	0.00	0.00	0.00	0.00
4950	4920	4950	39.44	0.01	0.00	0.00	0.11	0.01
4955	4947	4955	-1.26	0.00	0.00	0.00	0.01	0.00
4957	4955	4995	-13.57	0.00	0.00	0.00	0.09	0.01
4960	4950	4960	22.88	0.00	0.00	0.00	0.06	0.00
4965	4960	4965	47.00	0.00	0.00	0.00	0.13	0.01
4970	4965	4970	36.52	0.00	0.00	0.00	0.10	0.01
4975	4970	4975	27.26	0.00	0.00	0.00	0.08	0.01
4977	4975	4977	22.47	0.00	0.00	0.00	0.06	0.00
4980	4977	4980	16.71	0.00	0.00	0.00	0.05	0.00
4985	4980	4985	-106.87	0.02	0.00	0.00	0.30	0.07
4990	4985	4990	-134.24	0.03	0.00	0.00	0.38	0.10
4993	5080	4990	198.15	0.07	0.00	0.00	0.56	0.21
4995	4980	4995	117.82	0.02	0.00	0.00	0.33	0.08
5000	5000	5010	780.89	0.19	0.00	0.00	0.98	0.36
5010	5010	5020	780.89	0.18	0.00	0.00	0.98	0.36
5020	5020	5030	728.97	0.16	0.00	0.00	0.92	0.32
5030	5030	5040	759.12	0.24	0.00	0.00	0.96	0.34
5040	5040	5050	831.69	0.27	0.00	0.00	1.05	0.41
5050	5050	5060	586.81	0.14	0.00	0.00	0.74	0.21
5060	5060	5070	559.09	0.22	0.00	0.00	0.70	0.19
5070	5070	5080	559.09	0.16	0.00	0.00	0.70	0.19
5080	5080	5090	375.79	0.07	0.00	0.00	0.47	0.09
5090	5090	6000	375.79	0.06	0.00	0.00	0.47	0.09
5100	4900	5100	25.43	0.03	0.00	0.00	0.16	0.03
5105	5100	4960	25.43	0.01	0.00	0.00	0.16	0.03
5110	4970	5110	9.26	0.00	0.00	0.00	0.06	0.01
5120	5110	5120	2.87	0.00	0.00	0.00	0.02	0.00
5125	5120	4975	-1.93	0.00	0.00	0.00	0.01	0.00
5130	5120	5130	-4.11	0.00	0.00	0.00	0.03	0.00
5140	5130	5140	-13.02	0.00	0.00	0.00	0.08	0.01
5145	5140	5150	-31.84	0.02	0.00	0.00	0.20	0.05
5150	5150	4990	-37.60	0.03	0.00	0.00	0.24	0.07
5160	5140	5160	4.67	0.00	0.00	0.00	0.03	0.00
5163	5160	4975	12.60	0.00	0.00	0.00	0.08	0.01





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5165	5160	5170	-15.84	0.01	0.00	0.00	0.10	0.01
5170	5170	4985	-21.60	0.01	0.00	0.00	0.14	0.02
5180	4965	5180	6.55	0.00	0.00	0.00	0.03	0.00
5190	4950	5190	15.25	0.03	0.00	0.00	0.17	0.05
5195	5190	4947	10.01	0.00	0.00	0.00	0.04	0.00
5200	4995	5200	104.25	0.01	0.00	0.00	0.30	0.06
5205	5205	5200	-73.72	0.01	0.00	0.00	0.21	0.03
5210	5205	5210	69.45	0.01	0.00	0.00	0.20	0.03
5215	5210	5260	56.89	0.01	0.00	0.00	0.16	0.02
5217	5210	5215	6.86	0.00	0.00	0.00	0.08	0.01
5220	5220	5215	-2.59	0.00	0.00	0.00	0.03	0.00
5225	5220	5265	47.83	0.00	0.00	0.00	0.14	0.01
5230	5230	5220	49.52	0.01	0.00	0.00	0.14	0.02
5235	5250	5230	-1.20	0.00	0.00	0.00	0.01	0.00
5237	5230	5235	-55.25	0.01	0.00	0.00	0.16	0.02
5240	5200	5240	11.45	0.01	0.00	0.00	0.13	0.03
5250	5240	5250	8.23	0.01	0.00	0.00	0.09	0.02
5252	5250	5210	2.87	0.00	0.00	0.00	0.02	0.00
5255	5200	5255	14.81	0.02	0.00	0.00	0.17	0.05
5260	5255	5260	8.39	0.01	0.00	0.00	0.10	0.02
5265	5260	5265	26.47	0.00	0.00	0.00	0.08	0.00
5270	5260	5270	25.98	0.01	0.00	0.00	0.17	0.03
5272	5270	5279	24.77	0.02	0.00	0.00	0.16	0.03
5275	5280	5279	-10.70	0.00	0.00	0.00	0.07	0.01
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	44.29	0.06	0.00	0.00	0.28	0.09
5285	5280	5290	9.19	0.00	0.00	0.00	0.06	0.01
5290	5290	5295	9.19	0.00	0.00	0.00	0.10	0.02
5292	5265	5292	14.35	0.01	0.00	0.00	0.16	0.05
5295	5292	5297	14.35	0.02	0.00	0.00	0.16	0.05
5297	5295	5297	-11.29	0.01	0.00	0.00	0.13	0.03
5500	4540	5500	49.53	0.04	0.00	0.00	0.32	0.11
5510	4550	5510	36.14	0.02	0.00	0.00	0.23	0.06
5520	4560	5520	32.24	0.02	0.00	0.00	0.21	0.05
5530	5500	5530	45.44	0.03	0.00	0.00	0.29	0.10
5535	5040	5530	-93.39	0.17	0.00	0.00	0.60	0.37
5540	5510	5540	32.06	0.02	0.00	0.00	0.20	0.05
5545	5530	5540	-52.04	0.03	0.00	0.00	0.33	0.12
5550	5520	5550	28.15	0.01	0.00	0.00	0.18	0.04
5555	5540	5550	-24.07	0.01	0.00	0.00	0.15	0.03
6000	6000	5235	108.04	0.03	0.00	0.00	0.31	0.07
7000	30	7000	1157.02	0.20	0.00	0.00	1.46	0.75
7005	7000	7005	951.89	0.15	0.00	0.00	1.20	0.52



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7010	7005	7010	879.00	0.14	0.00	0.00	1.11	0.45
7015	7010	7015	803.20	0.22	0.00	0.00	1.01	0.38
7020	7015	7020	597.95	0.15	0.00	0.00	0.75	0.22
7025	7020	7025	555.58	0.12	0.00	0.00	0.70	0.19
7030	7025	7030	1040.25	0.05	0.00	0.00	1.31	0.62
7035	7030	7035	849.86	0.37	0.00	0.00	1.07	0.42
7040	7035	7040	830.11	0.21	0.00	0.00	1.05	0.41
7045	7040	7045	829.27	0.23	0.00	0.00	1.05	0.40
7050	7045	7050	817.39	0.11	0.00	0.00	1.03	0.39
7055	7050	7055	780.17	0.10	0.00	0.00	0.98	0.36
7060	7055	7060	836.39	0.21	0.00	0.00	1.05	0.41
7070	7060	7070	466.07	0.06	0.00	0.00	0.59	0.14
7075	8775	7070	-170.48	0.01	0.00	0.00	0.48	0.16
7080	7070	7080	295.59	0.27	0.00	0.00	0.84	0.43
7100	7000	7100	53.94	0.09	0.00	0.00	0.34	0.13
7105	7100	7005	45.55	0.07	0.00	0.00	0.29	0.10
7110	7010	7110	53.61	0.15	0.00	0.00	0.61	0.53
7120	7110	7120	23.54	0.07	0.00	0.00	0.27	0.12
7125	7015	7120	-8.75	0.00	0.00	0.00	0.06	0.00
7130	7120	7130	13.29	0.03	0.00	0.00	0.15	0.04
7135	7130	7020	47.01	0.12	0.00	0.00	0.53	0.42
7140	7140	7150	17.49	0.04	0.00	0.00	0.20	0.07
7145	7140	7110	-23.78	0.03	0.00	0.00	0.27	0.12
7150	7150	7160	-0.92	0.00	0.00	0.00	0.01	0.00
7155	7150	7120	8.46	0.00	0.00	0.00	0.05	0.00
7165	7160	7130	21.95	0.03	0.00	0.00	0.25	0.10
7167	7160	7210	-33.35	0.15	0.00	0.00	0.38	0.22
7200	7025	7200	-489.65	0.31	0.00	0.00	1.39	1.10
7210	7200	7210	-279.65	0.11	0.00	0.00	0.79	0.39
7215	7200	7210	-238.91	0.11	0.00	0.00	0.68	0.29
7220	7130	7200	-22.25	0.07	0.00	0.00	0.25	0.10
7300	7300	7310	-115.09	0.43	0.00	0.00	1.31	2.20
7310	7310	7000	-143.33	0.29	0.00	0.00	0.91	0.81
7320	7310	7320	23.00	0.03	0.00	0.00	0.26	0.11
7325	7320	7005	-110.58	0.17	0.00	0.00	0.71	0.50
7330	7320	7330	128.34	0.21	0.00	0.00	0.82	0.66
7340	7330	7340	123.97	0.33	0.00	0.00	0.79	0.62
7343	7340	7400	232.92	0.49	0.00	0.00	1.49	2.00
7345	7340	7300	-113.33	0.14	0.00	0.00	0.72	0.53
7350	7015	7350	198.28	0.41	0.00	0.00	1.27	1.48
7355	7350	7360	11.19	0.02	0.00	0.00	0.13	0.03
7360	7360	7020	-77.67	0.28	0.00	0.00	0.88	1.06
7365	7360	7380	82.26	0.32	0.00	0.00	0.93	1.18



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7370	7370	7350	-181.85	0.33	0.00	0.00	1.16	1.26
7373	7370	7410	167.45	0.33	0.00	0.00	1.07	1.08
7375	7370	7380	9.15	0.01	0.00	0.00	0.10	0.02
7385	7380	7415	84.81	0.37	0.00	0.00	0.96	1.25
7390	7420	7390	1.60	0.00	0.00	0.00	0.02	0.00
7400	7400	7405	34.68	0.15	0.00	0.00	0.39	0.24
7403	7400	7430	188.03	0.41	0.00	0.00	1.20	1.34
7405	7405	7410	24.46	0.09	0.00	0.00	0.28	0.12
7410	7410	7415	20.67	0.06	0.00	0.00	0.23	0.09
7413	7410	7440	152.64	0.28	0.00	0.00	0.97	0.91
7415	7415	7420	27.80	0.03	0.00	0.00	0.32	0.16
7418	7415	7445	66.58	0.24	0.00	0.00	0.76	0.80
7420	7420	7425	13.36	0.02	0.00	0.00	0.15	0.04
7425	7425	7450	7.70	0.01	0.00	0.00	0.09	0.01
7430	7430	7435	24.29	0.07	0.00	0.00	0.28	0.12
7433	7430	7455	153.52	0.27	0.00	0.00	0.98	0.92
7435	7435	7440	14.07	0.03	0.00	0.00	0.16	0.04
7440	7440	7445	10.85	0.02	0.00	0.00	0.12	0.03
7443	7440	7465	138.93	0.24	0.00	0.00	0.89	0.77
7448	7445	7470	64.86	0.24	0.00	0.00	0.74	0.76
7455	7455	7460	20.61	0.05	0.00	0.00	0.23	0.09
7458	7455	7480	122.70	0.19	0.00	0.00	0.78	0.61
7459	7495	7520	41.85	0.07	0.00	0.00	0.47	0.34
7460	7460	7465	10.39	0.02	0.00	0.00	0.12	0.03
7465	7465	7470	9.55	0.01	0.00	0.00	0.11	0.02
7468	7465	7490	123.16	0.19	0.00	0.00	0.79	0.61
7473	7470	7495	61.88	0.21	0.00	0.00	0.70	0.70
7480	7480	7485	20.11	0.05	0.00	0.00	0.23	0.09
7483	7480	7505	90.92	0.07	0.00	0.00	0.58	0.35
7485	7485	7490	9.90	0.02	0.00	0.00	0.11	0.02
7490	7490	7495	15.94	0.04	0.00	0.00	0.18	0.06
7493	7490	7515	96.03	0.07	0.00	0.00	0.61	0.39
7495	7495	7500	18.55	0.05	0.00	0.00	0.21	0.07
7500	7500	7475	0.31	0.00	0.00	0.00	0.00	0.00
7503	7500	7080	9.06	0.00	0.00	0.00	0.10	0.02
7504	7080	7525	302.95	0.02	0.00	0.00	0.86	0.45
7505	7505	7510	49.33	0.08	0.00	0.00	0.31	0.11
7508	7505	7550	37.92	0.03	0.00	0.00	0.24	0.07
7510	7510	7515	-4.59	0.00	0.00	0.00	0.03	0.00
7513	7510	7530	46.58	0.09	0.00	0.00	0.53	0.41
7515	7515	7520	30.60	0.03	0.00	0.00	0.20	0.05
7518	7515	7535	53.51	0.11	0.00	0.00	0.61	0.53
7520	7520	7525	14.91	0.01	0.00	0.00	0.10	0.01





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7523	7520	7540	50.20	0.10	0.00	0.00	0.57	0.47
7528	7525	7545	312.77	0.10	0.00	0.00	0.89	0.48
7530	7530	7535	13.26	0.03	0.00	0.00	0.15	0.04
7533	7530	7555	29.65	0.03	0.00	0.00	0.34	0.18
7535	7535	7540	11.14	0.02	0.00	0.00	0.13	0.03
7538	7535	7565	48.30	0.16	0.00	0.00	0.55	0.44
7540	7540	7545	2.84	0.00	0.00	0.00	0.03	0.00
7543	7540	7570	51.16	0.17	0.00	0.00	0.58	0.49
7548	7545	7575	311.94	0.17	0.00	0.00	0.88	0.48
7550	7550	7555	35.67	0.17	0.00	0.00	0.40	0.25
7553	7550	7573	-5.08	0.00	0.00	0.00	0.03	0.00
7558	7555	7560	57.99	0.11	0.00	0.00	0.66	0.62
7560	7560	7565	17.01	0.04	0.00	0.00	0.19	0.06
7563	7560	7577	33.64	0.01	0.00	0.00	0.21	0.06
7565	7565	7570	14.79	0.03	0.00	0.00	0.17	0.05
7568	7565	7590	35.85	0.09	0.00	0.00	0.41	0.25
7570	7570	7575	3.97	0.00	0.00	0.00	0.05	0.00
7572	7573	7577	101.88	0.29	0.00	0.00	0.65	0.43
7573	7570	7595	47.31	0.16	0.00	0.00	0.54	0.42
7576	7573	7580	-114.30	0.10	0.00	0.00	0.73	0.53
7577	7577	7585	128.19	0.12	0.00	0.00	0.82	0.66
7578	7575	7600	308.58	0.17	0.00	0.00	0.88	0.47
7582	7580	80	-119.88	0.07	0.00	0.00	0.77	0.58
7583	7580	7605	5.58	0.00	0.00	0.00	0.06	0.01
7585	7585	7590	4.23	0.00	0.00	0.00	0.05	0.00
7588	7585	7610	116.62	0.19	0.00	0.00	0.74	0.56
7590	7590	7595	26.19	0.10	0.00	0.00	0.30	0.14
7595	7595	7600	9.34	0.01	0.00	0.00	0.11	0.02
7598	7595	7620	50.28	0.16	0.00	0.00	0.57	0.47
7603	7600	7625	310.98	0.16	0.00	0.00	0.88	0.47
7610	7610	7615	39.21	0.05	0.00	0.00	0.25	0.07
7613	7610	10000	70.85	0.07	0.00	0.00	0.45	0.22
7615	7615	7620	26.11	0.02	0.00	0.00	0.17	0.03
7620	7620	7625	16.43	0.01	0.00	0.00	0.10	0.01
7623	7620	10020	46.67	0.13	0.00	0.00	0.53	0.41
7628	7625	10030	320.68	0.17	0.00	0.00	0.91	0.50
7700	510	7700	36.04	0.17	0.00	0.00	0.41	0.26
7703	7700	7720	707.63	0.19	0.00	0.00	1.13	0.54
7705	7700	7705	22.10	0.07	0.00	0.00	0.25	0.10
7710	7705	7710	9.60	0.02	0.00	0.00	0.11	0.02
7713	7710	7730	117.36	0.20	0.00	0.00	0.75	0.56
7715	7710	7715	-20.72	0.06	0.00	0.00	0.24	0.09
7718	7715	7735	21.70	0.26	0.00	0.00	0.55	0.72



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7720	505	7720	9.68	0.02	0.00	0.00	0.11	0.02
7723	7720	7740	674.11	0.18	0.00	0.00	1.08	0.49
7725	7720	7725	24.26	0.08	0.00	0.00	0.28	0.12
7730	7725	7730	10.29	0.02	0.00	0.00	0.12	0.03
7733	7730	7750	114.36	0.19	0.00	0.00	0.73	0.54
7735	7730	7735	2.21	0.00	0.00	0.00	0.03	0.00
7738	7735	7755	18.20	0.18	0.00	0.00	0.46	0.52
7740	500	7740	-83.60	0.07	0.00	0.00	0.34	0.10
7743	7740	7760	520.41	0.43	0.00	0.00	1.48	1.23
7745	7740	7745	59.17	0.04	0.00	0.00	0.24	0.05
7750	7745	7750	48.54	0.08	0.00	0.00	0.31	0.11
7753	7750	7770	163.17	0.37	0.00	0.00	1.04	1.03
7755	7750	7755	-14.84	0.01	0.00	0.00	0.09	0.01
7758	7755	7775	67.48	0.29	0.00	0.00	0.77	0.82
7760	495	7760	-14.62	0.03	0.00	0.00	0.17	0.05
7763	7760	7780	469.45	0.38	0.00	0.00	1.33	1.02
7765	7760	7765	18.56	0.05	0.00	0.00	0.21	0.07
7770	7765	7770	-0.46	0.00	0.00	0.00	0.01	0.00
7773	7770	7790	169.10	0.40	0.00	0.00	1.08	1.10
7775	7770	7775	-25.12	0.08	0.00	0.00	0.29	0.13
7778	7775	7795	34.11	0.61	0.00	0.00	0.87	1.67
7780	490	7780	-17.39	0.05	0.00	0.00	0.20	0.07
7782	7780	7805	412.36	0.14	0.00	0.00	1.17	0.80
7783	7805	7800	386.35	0.14	0.00	0.00	1.10	0.71
7785	7780	7785	22.10	0.07	0.00	0.00	0.25	0.10
7790	7785	7790	1.82	0.00	0.00	0.00	0.02	0.00
7793	7790	7820	119.83	0.22	0.00	0.00	0.76	0.58
7795	7790	7795	31.18	0.13	0.00	0.00	0.35	0.20
7798	7795	7825	58.21	0.23	0.00	0.00	0.66	0.62
7800	485	7800	-27.04	0.10	0.00	0.00	0.31	0.15
7803	7800	7900	361.10	0.12	0.00	0.00	1.02	0.62
7805	7805	7810	24.96	0.08	0.00	0.00	0.28	0.13
7810	7800	7815	-4.85	0.03	0.00	0.00	0.12	0.04
7813	7810	7815	23.91	0.02	0.00	0.00	0.27	0.12
7815	7815	7820	17.75	0.05	0.00	0.00	0.20	0.07
7820	7820	7825	11.27	0.14	0.00	0.00	0.29	0.21
7823	7820	7910	122.90	0.11	0.00	0.00	0.78	0.61
7828	7825	7915	67.39	0.01	0.00	0.00	0.19	0.03
7830	465	7830	-25.10	0.09	0.00	0.00	0.28	0.13
7833	7830	7940	106.36	0.17	0.00	0.00	0.68	0.47
7835	7830	7835	-15.11	0.03	0.00	0.00	0.17	0.05
7840	7835	7840	-16.81	0.04	0.00	0.00	0.19	0.06
7843	7840	7950	56.09	0.05	0.00	0.00	0.36	0.14



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7845	7840	7845	-9.99	0.02	0.00	0.00	0.11	0.02
7848	7845	7955	140.16	0.04	0.00	0.00	0.40	0.11
7850	705	7850	-81.13	0.20	0.00	0.00	0.52	0.28
7855	7850	7855	10.22	0.00	0.00	0.00	0.07	0.01
7860	7855	7860	7.50	0.00	0.00	0.00	0.05	0.00
7862	7860	7880	99.56	0.20	0.00	0.00	1.13	1.68
7865	7860	7865	-94.68	0.18	0.00	0.00	0.60	0.38
7870	7865	7870	4.40	0.00	0.00	0.00	0.03	0.00
7875	7875	7880	-49.78	0.08	0.00	0.00	0.56	0.47
7880	7880	7885	49.78	0.17	0.00	0.00	0.56	0.47
7890	7890	7895	-49.78	0.22	0.00	0.00	0.56	0.47
7898	8000	7895	51.09	0.04	0.00	0.00	0.33	0.12
7900	480	7900	-94.67	0.04	0.00	0.00	0.27	0.05
7903	7900	7920	206.34	0.09	0.00	0.00	0.59	0.22
7905	7900	7905	47.62	0.01	0.00	0.00	0.14	0.01
7910	7905	7910	36.72	0.01	0.00	0.00	0.10	0.01
7913	7910	7930	65.96	0.07	0.00	0.00	0.42	0.19
7915	7910	7915	83.26	0.03	0.00	0.00	0.24	0.04
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	148.53	0.05	0.00	0.00	0.42	0.12
7920	470	7920	-59.15	0.11	0.00	0.00	0.38	0.16
7923	7920	7830	121.59	0.12	0.00	0.00	0.78	0.60
7925	7920	7925	20.22	0.00	0.00	0.00	0.06	0.00
7930	7925	7930	14.98	0.00	0.00	0.00	0.04	0.00
7933	7930	7840	66.84	0.04	0.00	0.00	0.43	0.20
7935	7930	7935	8.86	0.00	0.00	0.00	0.03	0.00
7937	7845	7937	0.29	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	153.46	0.02	0.00	0.00	0.44	0.13
7940	700	7940	-157.03	0.09	0.00	0.00	0.45	0.13
7943	7940	7850	96.17	0.14	0.00	0.00	0.61	0.39
7945	7940	7945	-158.11	0.09	0.00	0.00	0.45	0.14
7950	7945	7950	-169.37	0.11	0.00	0.00	0.48	0.15
7953	7950	7865	101.71	0.16	0.00	0.00	0.65	0.43
7955	7950	7955	-223.63	0.02	0.00	0.00	0.28	0.04
8000	710	8000	43.36	0.25	0.00	0.00	0.49	0.36
8003	8000	8020	-27.31	0.01	0.00	0.00	0.17	0.04
8005	8000	8005	12.19	0.02	0.00	0.00	0.14	0.03
8010	8005	8010	3.60	0.00	0.00	0.00	0.04	0.00
8013	8010	8030	-5.65	0.00	0.00	0.00	0.06	0.01
8015	8010	8015	2.17	0.00	0.00	0.00	0.02	0.00
8020	715	8020	35.37	0.17	0.00	0.00	0.40	0.25
8023	8020	8040	-12.63	0.00	0.00	0.00	0.08	0.01
8025	8020	8025	13.30	0.02	0.00	0.00	0.15	0.04





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8030	8025	8030	4.37	0.00	0.00	0.00	0.05	0.01
8033	8030	8050	-18.83	0.03	0.00	0.00	0.21	0.08
8035	8030	8035	6.16	0.01	0.00	0.00	0.07	0.01
8040	720	8040	102.85	0.04	0.00	0.00	0.29	0.06
8043	8040	8060	53.92	0.05	0.00	0.00	0.34	0.13
8045	8040	8045	22.63	0.00	0.00	0.00	0.06	0.00
8050	8045	8050	8.95	0.00	0.00	0.00	0.03	0.00
8053	8050	8070	41.76	0.11	0.00	0.00	0.47	0.34
8055	8050	8055	-63.17	0.02	0.00	0.00	0.18	0.02
8060	725	8060	4.98	0.00	0.00	0.00	0.06	0.01
8065	8060	8065	39.09	0.20	0.00	0.00	0.44	0.30
8070	8065	8070	-31.28	0.13	0.00	0.00	0.35	0.20
8075	8075	8060	-8.80	0.01	0.00	0.00	0.10	0.02
8080	730	8080	9.07	0.00	0.00	0.00	0.06	0.00
8085	8080	8085	4.53	0.01	0.00	0.00	0.12	0.04
8090	8065	8090	62.51	0.14	0.00	0.00	0.40	0.17
8095	8090	8095	4.45	0.00	0.00	0.00	0.03	0.00
8100	750	8100	48.65	0.08	0.00	0.00	0.31	0.11
8105	8100	8105	48.65	0.04	0.00	0.00	0.31	0.11
8110	8105	8110	24.74	0.01	0.00	0.00	0.16	0.03
8115	8105	8115	17.58	0.01	0.00	0.00	0.11	0.02
8117	8115	8120	3.69	0.00	0.00	0.00	0.02	0.00
8120	8110	8120	3.96	0.00	0.00	0.00	0.03	0.00
8125	8115	8125	1.31	0.00	0.00	0.00	0.01	0.00
8130	8120	8130	1.31	0.00	0.00	0.00	0.01	0.00
8135	8095	8135	-5.79	0.00	0.00	0.00	0.04	0.00
8137	8135	8115	-8.62	0.00	0.00	0.00	0.06	0.00
8140	8095	8140	0.55	0.00	0.00	0.00	0.00	0.00
8145	8110	8145	16.82	0.01	0.00	0.00	0.11	0.02
8200	8055	8200	-67.89	0.07	0.00	0.00	0.43	0.20
8205	8200	8205	0.50	0.00	0.00	0.00	0.01	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-68.91	0.11	0.00	0.00	0.44	0.21
8220	8215	8220	-38.27	0.19	0.00	0.00	0.43	0.29
8225	8220	8225	-50.33	0.26	0.00	0.00	0.57	0.48
8227	8225	8240	122.36	0.04	0.00	0.00	0.35	0.08
8230	8215	8230	-38.18	0.03	0.00	0.00	0.24	0.07
8235	8230	8235	-34.23	0.16	0.00	0.00	0.39	0.23
8240	8235	8240	-46.28	0.23	0.00	0.00	0.53	0.41
8247	8240	8265	64.03	0.01	0.00	0.00	0.18	0.03
8250	8230	8250	-16.00	0.01	0.00	0.00	0.10	0.01
8255	8250	8255	-22.03	0.07	0.00	0.00	0.25	0.10
8260	8255	8260	-29.43	0.01	0.00	0.00	0.33	0.18





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8265	8260	8265	-54.07	0.29	0.00	0.00	0.61	0.54
8270	8255	8270	1.38	0.00	0.00	0.00	0.01	0.00
8275	8270	8275	-1.77	0.00	0.00	0.00	0.01	0.00
8278	8275	8290	-6.91	0.00	0.00	0.00	0.04	0.00
8280	8275	8280	2.00	0.00	0.00	0.00	0.01	0.00
8285	8280	8285	-1.15	0.00	0.00	0.00	0.01	0.00
8290	8285	8290	-5.99	0.00	0.00	0.00	0.04	0.00
8295	8290	8295	-17.75	0.01	0.00	0.00	0.11	0.02
8297	8295	8260	-18.61	0.00	0.00	0.00	0.12	0.02
8300	90000	8300	105.33	0.28	0.00	0.00	0.67	0.46
8303	90000	8300	49.85	0.28	0.00	0.00	0.57	0.47
8305	8300	8310	152.90	0.09	0.00	0.00	0.43	0.13
8310	8310	8320	183.59	0.11	0.00	0.00	0.52	0.18
8325	8320	8225	183.12	0.04	0.00	0.00	0.52	0.18
8330	8310	8330	-30.69	0.03	0.00	0.00	0.20	0.05
8340	8330	8340	-30.69	0.04	0.00	0.00	0.20	0.05
8350	8340	8350	2.62	0.00	0.00	0.00	0.03	0.00
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-33.31	0.13	0.00	0.00	0.38	0.22
8390	8380	10190	-37.24	0.18	0.00	0.00	0.42	0.27
8400	10070	8400	70.28	0.02	0.00	0.00	0.45	0.22
8410	8400	8410	0.91	0.00	0.00	0.00	0.01	0.00
8420	8410	8420	-3.00	0.00	0.00	0.00	0.02	0.00
8425	8420	10080	-2.19	0.00	0.00	0.00	0.01	0.00
8430	8410	8430	3.60	0.00	0.00	0.00	0.02	0.00
8440	8430	8440	3.28	0.00	0.00	0.00	0.02	0.00
8450	8440	8450	1.34	0.00	0.00	0.00	0.02	0.00
8455	8450	8420	0.82	0.00	0.00	0.00	0.00	0.00
8460	8440	8460	1.36	0.00	0.00	0.00	0.03	0.00
8470	8460	8470	0.68	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	332.18	0.20	0.00	0.00	0.94	0.54
8510	8500	8510	331.52	0.20	0.00	0.00	0.94	0.53
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	299.15	0.16	0.00	0.00	0.85	0.44
8525	8520	8525	4.03	0.00	0.00	0.00	0.05	0.00
8530	8520	8530	294.57	0.09	0.00	0.00	0.84	0.43
8540	8530	8540	294.43	0.08	0.00	0.00	0.84	0.43
8550	8540	8550	292.63	0.16	0.00	0.00	0.83	0.42
8555	8550	90000	290.14	0.41	0.00	0.00	1.19	1.01
8560	8550	8560	13.39	0.01	0.00	0.00	0.09	0.01
8600	10100	8600	62.55	0.27	0.00	0.00	0.71	0.71
8605	8600	8610	4.82	0.00	0.00	0.00	0.05	0.01



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8610	10110	8610	63.42	0.27	0.00	0.00	0.72	0.73
8615	8610	10140	-2.19	0.00	0.00	0.00	0.02	0.00
8620	8600	8620	53.82	0.20	0.00	0.00	0.61	0.54
8622	8620	8510	-31.43	0.07	0.00	0.00	0.36	0.20
8625	8620	8630	20.02	0.03	0.00	0.00	0.23	0.09
8630	8610	8630	57.83	0.23	0.00	0.00	0.66	0.61
8635	8630	10160	8.69	0.01	0.00	0.00	0.10	0.02
8640	8620	8640	60.96	0.25	0.00	0.00	0.69	0.68
8645	8640	8650	-10.57	0.01	0.00	0.00	0.12	0.03
8650	8630	8650	55.41	0.21	0.00	0.00	0.63	0.57
8655	8650	10170	-1.01	0.00	0.00	0.00	0.01	0.00
8660	8640	8660	70.61	0.08	0.00	0.00	0.45	0.22
8665	8660	8670	41.60	0.03	0.00	0.00	0.27	0.08
8670	8650	8670	40.45	0.12	0.00	0.00	0.46	0.32
8675	8670	10180	21.29	0.07	0.00	0.00	0.24	0.10
8680	8660	8680	28.38	0.07	0.00	0.00	0.32	0.16
8685	8680	8550	24.45	0.01	0.00	0.00	0.16	0.03
8690	8670	8690	58.41	0.46	0.00	0.00	0.66	0.63
8692	8690	90000	27.03	0.01	0.00	0.00	0.11	0.01
8695	8690	10190	31.38	0.01	0.00	0.00	0.13	0.02
8700	8400	8700	65.03	0.10	0.00	0.00	0.42	0.19
8705	8700	7755	75.52	0.01	0.00	0.00	0.48	0.25
8710	8700	8710	-14.89	0.13	0.00	0.00	0.38	0.36
8715	8710	10060	-21.20	0.06	0.00	0.00	0.24	0.10
8720	10060	8720	2.78	0.00	0.00	0.00	0.03	0.00
8725	8725	10050	-5.27	0.00	0.00	0.00	0.06	0.01
8730	10050	8730	3.22	0.00	0.00	0.00	0.04	0.00
8735	10040	8735	6.47	0.01	0.00	0.00	0.07	0.01
8740	10040	8740	-26.20	0.01	0.00	0.00	0.17	0.03
8745	8740	8745	4.59	0.00	0.00	0.00	0.05	0.01
8750	8740	8750	-35.37	0.01	0.00	0.00	0.23	0.06
8755	8750	8755	117.90	1.28	0.00	0.00	1.34	2.30
8760	8750	8760	-157.80	0.52	0.00	0.00	1.01	0.97
8765	8760	8765	1.68	0.00	0.00	0.00	0.02	0.00
8770	8760	8770	1.31	0.00	0.00	0.00	0.01	0.00
8775	8760	8775	-166.55	0.64	0.00	0.00	1.06	1.07
8800	10100	8800	0.52	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	-34.98	0.05	0.00	0.00	0.40	0.24
8810	8810	8900	-2.37	0.01	0.00	0.00	0.06	0.01
8815	8810	8820	-38.79	0.11	0.00	0.00	0.44	0.29
8820	8820	8910	-4.72	0.00	0.00	0.00	0.05	0.01
8825	8820	8830	-41.40	0.11	0.00	0.00	0.47	0.33
8830	8830	8920	2.09	0.00	0.00	0.00	0.02	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8835	8830	8840	-45.93	0.16	0.00	0.00	0.52	0.40
8840	8840	8845	0.86	0.00	0.00	0.00	0.01	0.00
8845	8840	8850	-47.64	0.30	0.00	0.00	0.54	0.43
8850	8850	8970	-48.74	0.30	0.00	0.00	0.55	0.45
8900	8900	10120	225.04	0.05	0.00	0.00	0.64	0.26
8910	8900	8910	-237.80	0.10	0.00	0.00	0.67	0.29
8920	8910	8920	-251.68	0.11	0.00	0.00	0.71	0.32
8930	8920	8930	-222.27	0.09	0.00	0.00	0.63	0.25
8940	8930	8940	-234.97	0.09	0.00	0.00	0.67	0.28
8950	8940	8950	-235.26	0.12	0.00	0.00	0.67	0.28
8960	8950	8960	-235.52	0.19	0.00	0.00	0.67	0.28
8965	8960	8975	-283.23	0.13	0.00	0.00	0.80	0.40
8970	8970	8975	286.06	0.14	0.00	0.00	0.81	0.41
8980	8970	8980	-335.84	0.25	0.00	0.00	0.95	0.55
8990	8980	7060	-370.32	0.27	0.00	0.00	1.05	0.65
9000	10190	9000	-262.50	0.30	0.00	0.00	0.74	0.35
9010	9000	9010	-264.81	0.17	0.00	0.00	0.75	0.35
9020	9010	9020	-264.91	0.27	0.00	0.00	0.75	0.35
9030	9020	9030	-264.91	0.19	0.00	0.00	0.75	0.35
9040	9040	9030	172.15	0.12	0.00	0.00	0.49	0.16
9050	9040	9050	-172.15	0.06	0.00	0.00	0.49	0.16
9060	9050	9060	-198.20	0.04	0.00	0.00	0.56	0.21
9070	9060	9070	-225.12	0.10	0.00	0.00	0.64	0.26
9080	9070	9080	-260.34	0.12	0.00	0.00	0.74	0.34
9085	9080	70200	-302.87	0.09	0.00	0.00	0.86	0.45
9090	9090	70200	167.94	0.03	0.00	0.00	0.48	0.15
9100	9090	9100	-195.62	0.04	0.00	0.00	0.55	0.20
9110	9100	9110	-237.88	0.09	0.00	0.00	0.67	0.29
9115	9110	9115	2.62	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-254.61	0.14	0.00	0.00	0.72	0.33
9130	9120	9130	-283.15	0.34	0.00	0.00	0.80	0.40
9140	9130	9140	-228.13	0.20	0.00	0.00	0.65	0.27
9150	9140	9150	215.96	0.15	0.00	0.00	0.61	0.24
9160	9150	9160	127.50	0.04	0.00	0.00	0.36	0.09
9170	9170	9160	-127.50	0.02	0.00	0.00	0.36	0.09
9175	9170	9175	76.26	0.23	0.00	0.00	0.49	0.25
9180	9180	9170	-70.90	0.02	0.00	0.00	0.20	0.03
9190	9190	9180	46.21	0.01	0.00	0.00	0.13	0.01
9195	8960	9190	46.21	0.00	0.00	0.00	0.13	0.01
9200	7055	9200	-34.63	0.02	0.00	0.00	0.22	0.06
9210	9200	9210	-39.27	0.03	0.00	0.00	0.25	0.07
9215	9210	9240	-43.91	0.03	0.00	0.00	0.28	0.09
9220	7050	9220	-14.96	0.01	0.00	0.00	0.10	0.01





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9230	9220	9230	-19.00	0.01	0.00	0.00	0.12	0.02
9235	9230	9260	-71.08	0.06	0.00	0.00	0.45	0.22
9240	9230	9240	46.11	0.02	0.00	0.00	0.29	0.10
9250	7045	9250	34.23	0.02	0.00	0.00	0.22	0.06
9260	9250	9260	29.99	0.01	0.00	0.00	0.19	0.04
9265	9260	9280	-47.28	0.03	0.00	0.00	0.30	0.10
9270	7045	9860	-22.36	0.01	0.00	0.00	0.14	0.03
9275	9270	9860	-22.96	0.01	0.00	0.00	0.15	0.03
9280	9270	9280	18.90	0.01	0.00	0.00	0.12	0.02
9300	7030	9300	87.24	0.17	0.00	0.00	0.56	0.32
9310	9300	9310	87.24	0.10	0.00	0.00	0.56	0.32
9315	9330	9310	-87.24	0.09	0.00	0.00	0.56	0.32
9320	7030	9320	91.42	0.18	0.00	0.00	0.58	0.35
9330	9320	9330	89.06	0.19	0.00	0.00	0.57	0.34
9333	9330	9333	163.82	0.26	0.00	0.00	1.05	1.04
9335	9333	9337	62.30	0.08	0.00	0.00	0.40	0.17
9337	9370	9337	-80.93	0.08	0.00	0.00	0.52	0.28
9340	9280	9340	-33.80	0.00	0.00	0.00	0.10	0.01
9345	9340	9345	-13.59	0.00	0.00	0.00	0.09	0.01
9348	9345	9355	-16.57	0.00	0.00	0.00	0.11	0.01
9350	9340	9350	-24.80	0.01	0.00	0.00	0.16	0.03
9355	9350	9355	4.00	0.00	0.00	0.00	0.03	0.00
9360	9350	9360	-34.11	0.01	0.00	0.00	0.22	0.06
9365	9355	9365	-16.82	0.00	0.00	0.00	0.11	0.02
9368	9365	9385	-18.00	0.00	0.00	0.00	0.11	0.02
9370	9360	9370	-51.86	0.02	0.00	0.00	0.33	0.12
9375	9360	9375	11.67	0.00	0.00	0.00	0.07	0.01
9380	9370	9380	25.22	0.00	0.00	0.00	0.16	0.03
9385	9375	9385	19.23	0.00	0.00	0.00	0.12	0.02
9387	9375	9390	-12.54	0.00	0.00	0.00	0.08	0.01
9390	9380	9390	20.74	0.01	0.00	0.00	0.13	0.02
9395	9390	9395	2.99	0.00	0.00	0.00	0.02	0.00
9400	7210	9400	-558.12	1.75	0.00	0.00	1.58	1.40
9410	9400	9410	168.80	0.07	0.00	0.00	0.48	0.15
9415	9410	9415	3.98	0.00	0.00	0.00	0.03	0.00
9420	9410	9420	166.18	0.09	0.00	0.00	0.47	0.15
9425	9415	9425	2.67	0.00	0.00	0.00	0.02	0.00
9430	9420	9430	159.13	0.05	0.00	0.00	0.45	0.14
9435	9425	9410	1.36	0.00	0.00	0.00	0.01	0.00
9440	9430	9440	159.13	0.06	0.00	0.00	0.45	0.14
9460	9400	9460	-496.72	0.06	0.00	0.00	0.63	0.16
9470	9460	9470	-499.87	0.05	0.00	0.00	0.63	0.16
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9490	9440	9490	5.66	0.00	0.00	0.00	0.04	0.00
9500	8930	9500	8.51	0.01	0.00	0.00	0.10	0.02
9503	9500	9510	24.58	0.04	0.00	0.00	0.28	0.13
9505	9500	9505	-22.61	0.07	0.00	0.00	0.26	0.11
9507	9175	9505	72.04	0.11	0.00	0.00	0.46	0.23
9510	8920	9510	-34.08	0.04	0.00	0.00	0.22	0.06
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	-19.75	0.06	0.00	0.00	0.22	0.08
9520	8910	9520	-5.93	0.01	0.00	0.00	0.07	0.01
9525	9520	9525	-17.54	0.04	0.00	0.00	0.20	0.07
9530	8900	9530	2.05	0.00	0.00	0.00	0.02	0.00
9535	9530	9535	-9.13	0.01	0.00	0.00	0.10	0.02
9540	10130	9540	12.31	0.02	0.00	0.00	0.14	0.04
9545	9540	9545	1.89	0.00	0.00	0.00	0.02	0.00
9550	10150	9550	21.95	0.03	0.00	0.00	0.25	0.10
9555	9550	9555	21.95	0.04	0.00	0.00	0.25	0.10
9557	9555	9570	57.26	0.03	0.00	0.00	0.37	0.15
9560	9555	9560	-41.67	0.22	0.00	0.00	0.47	0.34
9565	10160	9565	100.29	0.13	0.00	0.00	0.64	0.42
9570	9565	9570	-93.59	0.15	0.00	0.00	0.60	0.37
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.18	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-36.34	0.01	0.00	0.00	0.23	0.06
9590	9590	9595	4.06	0.00	0.00	0.00	0.03	0.00
9600	9505	9600	47.07	0.02	0.00	0.00	0.30	0.10
9605	9600	9515	73.17	0.04	0.00	0.00	0.47	0.23
9610	9515	9605	46.77	0.10	0.00	0.00	0.53	0.41
9615	9605	9525	53.86	0.06	0.00	0.00	0.61	0.54
9620	9525	9610	32.65	0.04	0.00	0.00	0.37	0.21
9625	9610	9535	56.57	0.10	0.00	0.00	0.64	0.59
9630	9535	9545	56.36	0.23	0.00	0.00	0.64	0.59
9635	9545	9560	65.88	0.07	0.00	0.00	0.42	0.19
9640	9560	9640	33.78	0.02	0.00	0.00	0.22	0.06
9645	9640	9585	41.60	0.22	0.00	0.00	0.47	0.33
9650	9640	9650	-2.54	0.00	0.00	0.00	0.02	0.00
9655	9650	9590	7.52	0.00	0.00	0.00	0.05	0.00
9660	9595	9660	3.14	0.00	0.00	0.00	0.04	0.00
9665	9650	9670	-15.75	0.04	0.00	0.00	0.18	0.06
9670	9670	9675	1.73	0.00	0.00	0.00	0.02	0.00
9673	9670	9673	-19.70	0.00	0.00	0.00	0.13	0.02
9675	9680	9673	-6.35	0.00	0.00	0.00	0.04	0.00
9678	9673	9050	-26.06	0.02	0.00	0.00	0.17	0.03
9680	9640	9680	-16.52	0.04	0.00	0.00	0.19	0.06



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9683	9680	9060	-21.54	0.06	0.00	0.00	0.24	0.10
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	-19.65	0.01	0.00	0.00	0.13	0.02
9710	9700	9710	-20.78	0.01	0.00	0.00	0.13	0.02
9720	9710	9720	-20.78	0.01	0.00	0.00	0.13	0.02
9725	9720	9130	57.46	0.01	0.00	0.00	0.16	0.02
9730	9150	9730	83.22	0.02	0.00	0.00	0.24	0.04
9735	9730	9720	82.04	0.01	0.00	0.00	0.23	0.04
9740	9600	9740	-26.11	0.02	0.00	0.00	0.17	0.03
9745	9740	9120	-26.11	0.03	0.00	0.00	0.17	0.03
9750	9605	9750	-10.60	0.01	0.00	0.00	0.12	0.03
9755	9750	9110	-14.11	0.03	0.00	0.00	0.16	0.05
9760	9610	9760	-26.12	0.02	0.00	0.00	0.17	0.03
9765	9760	9100	-35.68	0.04	0.00	0.00	0.23	0.06
9770	9535	9770	-18.07	0.05	0.00	0.00	0.21	0.07
9775	9770	9090	-24.67	0.08	0.00	0.00	0.28	0.13
9780	9545	9780	-22.09	0.07	0.00	0.00	0.25	0.10
9785	9780	9080	-36.64	0.16	0.00	0.00	0.42	0.26
9790	9560	9790	-22.31	0.07	0.00	0.00	0.25	0.11
9795	9790	9070	-29.33	0.11	0.00	0.00	0.33	0.17
9800	9333	9800	99.54	0.06	0.00	0.00	0.64	0.41
9810	9800	9810	24.45	0.01	0.00	0.00	0.16	0.03
9815	9810	9337	21.54	0.00	0.00	0.00	0.14	0.02
9820	9800	9820	73.09	0.06	0.00	0.00	0.47	0.23
9830	9820	9830	24.75	0.01	0.00	0.00	0.16	0.03
9835	9830	9850	18.72	0.00	0.00	0.00	0.12	0.02
9840	9820	9840	43.10	0.02	0.00	0.00	0.28	0.09
9850	9840	9850	-12.70	0.00	0.00	0.00	0.08	0.01
9860	9840	9860	50.56	0.03	0.00	0.00	0.32	0.12
9870	7050	9870	42.91	0.05	0.00	0.00	0.27	0.09
9880	9870	9880	36.89	0.02	0.00	0.00	0.24	0.07
9890	9880	7055	30.86	0.03	0.00	0.00	0.20	0.05
9900	9140	9900	2.08	0.00	0.00	0.00	0.01	0.00
9910	9900	9910	2.08	0.00	0.00	0.00	0.01	0.00
9920	9910	9920	165.85	0.10	0.00	0.00	0.47	0.15
10003	10000	7700	706.79	0.19	0.00	0.00	1.13	0.53
10005	100	10000	1038.54	0.43	0.00	0.00	1.31	0.61
10010	10000	10010	392.78	0.07	0.00	0.00	0.50	0.10
10020	10010	10020	379.68	0.07	0.00	0.00	0.48	0.10
10023	10020	7710	99.41	0.14	0.00	0.00	0.63	0.41
10030	10020	10030	313.84	0.04	0.00	0.00	0.40	0.07





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
10033	10030	7715	48.97	0.04	0.00	0.00	0.31	0.11
10040	10030	10040	573.87	0.14	0.00	0.00	0.72	0.20
10050	10040	10050	587.31	0.08	0.00	0.00	0.74	0.21
10060	10050	10060	570.33	0.07	0.00	0.00	0.72	0.20
10070	10060	10070	539.80	0.07	0.00	0.00	0.68	0.18
10080	10070	10080	469.52	0.02	0.00	0.00	0.59	0.14
10090	10080	10090	463.40	0.05	0.00	0.00	0.58	0.14
10100	10090	10100	130.99	0.00	0.00	0.00	0.17	0.01
10110	10100	10110	63.07	0.00	0.00	0.00	0.08	0.00
10115	10110	10115	-5.30	0.00	0.00	0.00	0.01	0.00
10120	10115	10120	26.93	0.00	0.00	0.00	0.03	0.00
10130	10120	10130	1119.53	0.14	0.00	0.00	1.41	0.71
10140	10130	10140	1102.61	0.13	0.00	0.00	1.39	0.69
10150	10140	10150	1091.72	0.12	0.00	0.00	1.38	0.67
10160	10150	10160	1069.77	0.12	0.00	0.00	1.35	0.65
10170	10160	10170	953.28	0.20	0.00	0.00	1.20	0.52
10180	10170	10180	947.11	0.19	0.00	0.00	1.19	0.52
10185	10180	10185	966.91	0.03	0.00	0.00	1.22	0.54
10190	10185	10190	948.36	0.37	0.00	0.00	1.20	0.52
10195	10190	10195	-38.79	0.00	0.00	0.00	0.05	0.00
10200	10195	90000	-38.79	0.00	0.00	0.00	0.05	0.00
10210	90000	10210	107.91	0.01	0.00	0.00	0.14	0.01
10220	10210	7955	88.18	0.00	0.00	0.00	0.11	0.01
14100	4100	14100	60.10	0.05	0.00	0.00	0.38	0.16
14105	3080	14110	21.65	0.01	0.00	0.00	0.14	0.02
14110	14100	14110	54.86	0.06	0.00	0.00	0.35	0.14
14113	14110	14115	2.62	0.00	0.00	0.00	0.02	0.00
14115	14110	14130	66.03	0.05	0.00	0.00	0.42	0.19
14120	14120	4115	-38.15	0.02	0.00	0.00	0.24	0.07
14130	14120	14130	32.91	0.02	0.00	0.00	0.21	0.05
14133	14130	14135	2.62	0.00	0.00	0.00	0.02	0.00
14135	14130	14150	88.45	0.10	0.00	0.00	0.56	0.33
14140	4130	14140	37.88	0.01	0.00	0.00	0.24	0.07
14150	14150	14140	9.90	0.00	0.00	0.00	0.06	0.01
14155	14150	14170	75.28	0.07	0.00	0.00	0.48	0.25
14160	14140	14160	43.19	0.02	0.00	0.00	0.28	0.09
14170	14160	14170	35.99	0.04	0.00	0.00	0.23	0.06
14175	14170	4266	104.06	0.07	0.00	0.00	0.66	0.45
20500	20500	5	17575.96	0.20	0.00	0.00	3.12	0.97
23000	6000	23000	267.75	0.03	0.00	0.00	0.34	0.05
23010	23000	23010	267.30	0.03	0.00	0.00	0.34	0.05
23020	23010	23020	219.03	0.02	0.00	0.00	0.28	0.03
23030	23020	23030	219.03	0.02	0.00	0.00	0.28	0.03





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
23040	23030	23040	219.03	0.02	0.00	0.00	0.28	0.03
23050	23010	23050	156.78	0.00	0.00	0.00	0.11	0.00
23060	23050	23060	156.78	0.00	0.00	0.00	0.11	0.00
23070	23060	23070	194.45	0.01	0.00	0.00	0.14	0.01
23080	23070	23100	195.82	0.00	0.00	0.00	0.14	0.01
23100	23120	5295	-17.37	0.00	0.00	0.00	0.07	0.01
23110	23100	23110	29.97	0.01	0.00	0.00	0.12	0.02
23120	23110	23120	-14.57	0.00	0.00	0.00	0.06	0.00
23200	5297	23200	3.06	0.00	0.00	0.00	0.01	0.00
23210	23200	23210	3.06	0.00	0.00	0.00	0.01	0.00
23220	23210	23220	3.06	0.00	0.00	0.00	0.01	0.00
23230	23220	23070	3.06	0.00	0.00	0.00	0.01	0.00
23235	23070	23230	-3.81	0.00	0.00	0.00	0.01	0.00
23240	23230	23240	-9.31	0.00	0.00	0.00	0.03	0.00
23400	5265	23400	53.53	0.01	0.00	0.00	0.15	0.02
23410	23400	23410	53.53	0.01	0.00	0.00	0.15	0.02
23420	23410	23420	53.53	0.01	0.00	0.00	0.15	0.02
23430	23420	23060	53.53	0.01	0.00	0.00	0.15	0.02
23445	23240	23540	-15.86	0.00	0.00	0.00	0.04	0.00
23500	23060	23500	15.86	0.00	0.00	0.00	0.04	0.00
23510	23500	23510	15.86	0.00	0.00	0.00	0.04	0.00
23520	23510	23520	15.86	0.00	0.00	0.00	0.04	0.00
23530	23520	23530	15.86	0.00	0.00	0.00	0.04	0.00
23540	23530	23540	15.86	0.00	0.00	0.00	0.04	0.00
23550	23540	23550	0.00	0.00	0.00	0.00	0.00	0.00
24000	10	24000	269.86	14.39	0.00	0.00	1.72	2.63
39000	2430	39000	321.81	0.66	0.00	0.00	0.91	0.50
39005	39000	230	321.81	0.57	0.00	0.00	0.91	0.50
39010	70030	39010	-134.61	0.09	0.00	0.00	0.38	0.10
39020	39010	39020	-134.61	0.07	0.00	0.00	0.38	0.10
39030	39020	9440	-134.61	0.08	0.00	0.00	0.38	0.10
39040	70010	39040	239.78	0.23	0.00	0.00	0.68	0.29
39045	39040	9400	239.78	0.23	0.00	0.00	0.68	0.29
39200	70050	39200	236.70	0.36	0.00	0.00	0.67	0.29
39210	39200	39210	236.70	0.38	0.00	0.00	0.67	0.29
39215	39210	70080	236.70	0.38	0.00	0.00	0.67	0.29
40000	220	40000	3068.11	0.53	0.00	0.00	1.39	0.38
40010	40000	40010	3007.85	0.46	0.00	0.00	1.37	0.37
40020	40010	40020	2674.69	0.36	0.00	0.00	1.50	0.49
40030	40020	40030	2561.50	0.28	0.00	0.00	1.44	0.45
40035	40030	2230	2305.69	0.04	0.00	0.00	1.29	0.37
40040	40030	40040	137.91	0.13	0.00	0.00	0.39	0.11
40050	40040	40050	53.03	0.02	0.00	0.00	0.15	0.02



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
40060	2230	40060	3205.96	0.42	0.00	0.00	1.80	0.69
40070	40060	40070	3205.96	0.27	0.00	0.00	1.80	0.69
40080	40070	40080	3205.96	0.16	0.00	0.00	1.80	0.69
40090	40080	3040	3205.96	0.79	0.00	0.00	1.80	0.69
40100	40010	40100	249.32	0.38	0.00	0.00	0.71	0.31
40110	40100	40110	229.93	0.31	0.00	0.00	0.65	0.27
40115	40110	40115	124.72	0.06	0.00	0.00	0.35	0.09
40120	40110	40120	73.77	0.05	0.00	0.00	0.21	0.03
40130	40120	40130	61.46	0.03	0.00	0.00	0.17	0.02
40140	40130	40140	49.15	0.01	0.00	0.00	0.14	0.02
40150	40140	40150	36.83	0.01	0.00	0.00	0.10	0.01
40160	40150	40160	5.39	0.00	0.00	0.00	0.02	0.00
40170	40160	40050	-26.05	0.01	0.00	0.00	0.07	0.00
40180	40115	40050	93.28	0.03	0.00	0.00	0.26	0.05
41000	220	41000	-203.44	0.04	0.00	0.00	0.26	0.03
41010	41000	41010	-321.34	0.09	0.00	0.00	0.41	0.07
41020	41010	41020	-474.67	0.19	0.00	0.00	0.60	0.14
41025	41020	41025	-553.27	0.27	0.00	0.00	0.70	0.19
41027	41057	41025	-214.68	0.31	0.00	0.00	0.61	0.24
41028	41025	41028	-1001.82	0.72	0.00	0.00	1.26	0.57
41029	41028	10	-1159.02	1.05	0.00	0.00	1.46	0.75
41030	41010	41030	74.74	0.04	0.00	0.00	0.21	0.03
41040	41030	41040	30.72	0.01	0.00	0.00	0.09	0.01
41050	41040	41050	-13.30	0.00	0.00	0.00	0.04	0.00
41055	41050	41055	-57.31	0.03	0.00	0.00	0.16	0.02
41057	41055	41057	-146.56	0.17	0.00	0.00	0.42	0.12
41065	41025	41060	110.73	0.01	0.00	0.00	0.14	0.01
41070	41060	41070	66.71	0.01	0.00	0.00	0.08	0.00
41080	41070	41080	-419.08	0.14	0.00	0.00	0.53	0.11
41085	41080	70010	-489.82	0.20	0.00	0.00	0.62	0.15
41090	41055	41090	21.13	0.00	0.00	0.00	0.06	0.00
41100	41090	41100	-3.50	0.00	0.00	0.00	0.01	0.00
41110	41100	41110	-154.91	0.19	0.00	0.00	0.44	0.13
41115	41110	41070	-200.76	0.28	0.00	0.00	0.57	0.21
41120	41070	41120	223.19	0.32	0.00	0.00	0.63	0.26
41130	41120	41130	191.75	0.26	0.00	0.00	0.54	0.19
41140	41100	41140	105.56	0.08	0.00	0.00	0.30	0.06
41150	41140	41150	84.34	0.06	0.00	0.00	0.24	0.04
41160	41150	41160	17.27	0.00	0.00	0.00	0.05	0.00
41165	41160	41130	-49.81	0.02	0.00	0.00	0.14	0.02
41170	41130	41170	80.11	0.05	0.00	0.00	0.23	0.04
41175	41170	70030	13.04	0.00	0.00	0.00	0.04	0.00
50000	3040	50020	1918.08	1.20	0.00	0.00	1.36	0.47



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
50010	50010	50020	-214.81	0.16	0.00	0.00	0.61	0.24
50020	50020	50030	1648.63	0.25	0.00	0.00	1.17	0.36
50030	50030	50040	1620.34	0.23	0.00	0.00	1.15	0.34
50040	50040	50050	1600.63	0.51	0.00	0.00	1.14	0.34
50050	50050	50060	1517.57	0.35	0.00	0.00	1.08	0.31
50060	50060	50070	1459.40	0.42	0.00	0.00	1.03	0.28
50065	50060	980	-175.17	0.06	0.00	0.00	0.50	0.16
50070	50070	50080	1357.22	0.34	0.00	0.00	0.96	0.25
50080	50080	50090	1129.43	0.25	0.00	0.00	0.80	0.18
50090	50090	50100	1001.05	0.17	0.00	0.00	0.71	0.14
50100	50100	50110	721.96	0.10	0.00	0.00	0.51	0.08
50110	50110	50120	612.44	0.08				
50120	50120	50130	257.06	0.01	0.00	0.00		
50130	50130	23010	108.51	0.00	0.00	0.00	0.08	0.00
51000	50010	51000	129.92	0.13	0.00	0.00	0.37	0.09
51010	51000	51010	110.54	0.10	0.00	0.00	0.31	0.07
51015	51010	51030	91.15	0.03	0.00	0.00	0.26	0.05
51020	50020	51020	181.59	0.25	0.00	0.00	0.52	0.17
51025	50020	3060	-241.72	0.30	0.00	0.00	0.69	0.30
51030	51020	51030	150.15	0.17	0.00	0.00	0.43	0.12
51035	51030	51040	209.86	0.16	0.00	0.00	0.60	0.23
51045	51040	51060	197.55	0.13	0.00	0.00	0.56	0.20
51050	50040	51050	139.36	0.15	0.00	0.00	0.40	0.11
51055	50040	3080	-231.00	0.17	0.00	0.00	0.66	0.27
51060	51050	51060	102.68	0.08	0.00	0.00	0.29	0.06
51070	51060	51070	263.55	0.52	0.00	0.00	0.75	0.35
51075	51070	51090	238.92	0.34	0.00	0.00	0.68	0.29
51080	50060	51080	155.53	0.19	0.00	0.00	0.44	0.13
51090	51080	51090	77.72	0.05	0.00	0.00	0.22	0.04
51095	51090	51100	238.82	0.44	0.00	0.00	0.68	0.29
51100	51120	51110	54.55	0.03	0.00	0.00	0.15	0.02
51105	51100	51110	186.42	0.25	0.00	0.00	0.53	0.18
51115	51110	51130	163.15	0.20	0.00	0.00	0.46	0.14
51120	50080	51120	132.36	0.14	0.00	0.00	0.38	0.10
51125	50080	5050	-81.42	0.10	0.00	0.00	0.23	0.04
51135	51130	51150	140.36	0.13	0.00	0.00	0.40	0.11
51140	50100	51140	87.40	0.06	0.00	0.00	0.25	0.05
51145	50100	5080	14.85	0.00	0.00	0.00	0.04	0.00
51150	51140	51150	37.88	0.01	0.00	0.00	0.11	0.01
51160	51150	51160	128.72	0.12	0.00	0.00	0.37	0.09
51165	51160	51180	79.20	0.05	0.00	0.00	0.22	0.04
51170	50120	51170	85.87	0.06	0.00	0.00	0.24	0.04
51180	51170	51180	34.78	0.01	0.00	0.00	0.10	0.01





## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
51190	50120	51190	110.48	0.09	0.00	0.00	0.31	0.07
51200	51190	51200	58.08	0.03	0.00	0.00	0.16	0.02
51210	51200	51210	11.00	0.00	0.00	0.00	0.03	0.00
51220	51210	51220	-13.63	0.00	0.00	0.00	0.04	0.00
51230	51180	51230	62.89	0.03	0.00	0.00	0.18	0.02
51235	51230	51220	38.26	0.01	0.00	0.00	0.11	0.01
52000	51200	52000	-5.32	0.00	0.00	0.00	0.02	0.00
52010	52000	52010	-33.62	0.01	0.00	0.00	0.10	0.01
52015	52010	23040	-218.05	0.02	0.00	0.00	0.27	0.03
60000	5	210	3218.46	1.49	0.00	0.00	2.28	1.23
60005	210	220	3273.75	1.75	0.00	0.00	2.32	1.27
60010	220	230	1302.49	0.34	0.00	0.00	0.92	0.23
70000	10	70000	5868.14	0.67	0.00	0.00	1.85	0.52
70010	70000	70010	5773.82	0.76	0.00	0.00	1.82	0.50
70020	70010	70020	4910.60	0.48	0.00	0.00	1.55	0.37
70030	70020	70030	4830.17	0.49	0.00	0.00	1.52	0.36
70040	70030	70040	4800.97	0.44	0.00	0.00	1.51	0.36
70050	70040	70050	4673.64	0.44	0.00	0.00	1.47	0.34
70060	70050	70060	4295.46	0.38	0.00	0.00	1.35	0.29
70070	70060	70070	4265.59	0.38	0.00	0.00	1.34	0.29
70080	70070	70080	4235.72	0.35	0.00	0.00	1.34	0.28
70090	70080	70090	4365.00	0.32	0.00	0.00	1.38	0.30
70100	70090	70100	4365.00	0.13	0.00	0.00	1.38	0.30
70110	70100	70110	4365.00	0.35	0.00	0.00	1.38	0.30
70115	70110	70115	281.67	0.52	0.00	0.00	0.80	0.39
70118	70115	9910	163.77	0.19	0.00	0.00	0.46	0.14
70120	70110	70120	3631.05	0.30	0.00	0.00	1.14	0.21
70130	70120	70130	2262.74	0.48	0.00	0.00	1.27	0.36
70140	70130	70140	2186.76	0.45	0.00	0.00	1.23	0.34
70150	70140	70150	1263.63	0.17	0.00	0.00	0.71	0.12
70160	70150	70200	1161.45	0.14	0.00	0.00	0.65	0.10
72000	70200	10120	871.93	0.16	0.00	0.00	0.49	0.06
74000	70120	74000	698.47	0.41	0.00	0.00	0.88	0.29
74005	70120	74005	538.84	0.25	0.00	0.00	0.68	0.18
74008	74005	9140	447.14	0.17	0.00	0.00	0.56	0.13
74010	74000	74010	661.79	0.33	0.00	0.00	0.83	0.27
74015	74010	74115	174.35	0.22	0.00	0.00	0.49	0.16
74020	74010	74020	428.77	0.15	0.00	0.00	0.54	0.12
74030	74020	74030	392.09	0.14	0.00	0.00	0.49	0.10
74035	74030	74095	80.87	0.05	0.00	0.00	0.23	0.04
74040	74030	74040	224.06	0.05	0.00	0.00	0.28	0.04
74050	74040	74050	187.38	0.03	0.00	0.00	0.24	0.03
74060	74050	74060	132.32	0.02	0.00	0.00	0.17	0.01



CITY OF EL CENTRO WATER MASTER PLAN UPLAND  
P I P E L I N E R E S U L T S

RUN-7

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
74070	74060	74070	111.10	0.01	0.00	0.00	0.14	0.01
74080	74070	74080	-52.21	0.00	0.00	0.00	0.07	0.00
74090	74080	74090	-52.21	0.00	0.00	0.00	0.07	0.00
74095	74090	74095	-80.87	0.05	0.00	0.00	0.23	0.04
74100	74090	74100	-139.53	0.02	0.00	0.00	0.18	0.01
74110	74100	74110	-178.30	0.03	0.00	0.00	0.22	0.02
74115	74110	74115	-130.34	0.12	0.00	0.00	0.37	0.09
74120	74110	74120	-266.95	0.06	0.00	0.00	0.34	0.05
74130	74120	70140	-310.96	0.09	0.00	0.00	0.39	0.07
74200	70110	74200	305.03	0.64	0.00	0.00	0.87	0.46
74210	74200	74210	252.63	0.39	0.00	0.00	0.72	0.32
74215	74210	74010	15.48	0.00	0.00	0.00	0.04	0.00
74220	74210	74220	170.08	0.20	0.00	0.00	0.48	0.15
74230	74220	74230	117.16	0.11	0.00	0.00	0.33	0.08
74235	74230	74030	-37.38	0.01	0.00	0.00	0.11	0.01
74240	74230	74240	87.47	0.06	0.00	0.00	0.25	0.05
74250	74240	74250	34.54	0.01	0.00	0.00	0.10	0.01
74255	74250	74050	-18.38	0.00	0.00	0.00	0.05	0.00
74300	70140	74300	470.69	0.21	0.00	0.00	0.59	0.14
74310	74300	74310	95.62	0.07	0.00	0.00	0.27	0.05
74320	74310	74320	62.08	0.03	0.00	0.00	0.18	0.02
74325	74320	74110	-140.38	0.16	0.00	0.00	0.40	0.11
74330	74320	74330	53.03	0.02	0.00	0.00	0.15	0.02
74340	74330	74340	21.59	0.00	0.00	0.00	0.06	0.00
74345	74340	74090	-129.41	0.14	0.00	0.00	0.37	0.09
74350	74340	74350	13.80	0.00	0.00	0.00	0.04	0.00
74360	74350	74360	-24.97	0.01	0.00	0.00	0.07	0.00
74365	74360	74070	-124.53	0.13	0.00	0.00	0.35	0.09
74500	74320	74500	82.36	0.04	0.00	0.00	0.23	0.04
74510	74500	74510	50.92	0.02	0.00	0.00	0.14	0.02
74520	74510	74520	19.48	0.00	0.00	0.00	0.06	0.00
74525	74520	74570	-47.34	0.02	0.00	0.00	0.13	0.01
74530	74520	74530	10.22	0.00	0.00	0.00	0.03	0.00
74540	74530	74540	-12.58	0.00	0.00	0.00	0.04	0.00
74550	74540	74550	-37.99	0.02	0.00	0.00	0.11	0.01
74555	74550	74360	-60.78	0.02	0.00	0.00	0.17	0.02
74575	74570	74340	-63.06	0.03	0.00	0.00	0.18	0.02
74600	74300	74600	288.61	0.32	0.00	0.00	0.82	0.41
74610	74600	74610	182.50	0.24	0.00	0.00	0.52	0.18
74615	74610	9030	93.42	0.07	0.00	0.00	0.27	0.05
76000	9920	76000	165.85	0.19	0.00	0.00	0.47	0.15
76010	76000	76010	24.37	0.00	0.00	0.00	0.07	0.00
76015	76010	9180	-117.11	0.05	0.00	0.00	0.33	0.08



## CITY OF EL CENTRO WATER MASTER PLAN UPLAND

RUN-7

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
80000	80000	80010	8.64	0.00	0.00	0.00	0.01	0.00
80005	23100	80000	165.84	0.00	0.00	0.00	0.12	0.01
80010	80010	80020	-302.37	0.02	0.00	0.00	0.21	0.02
80020	80020	80030	-467.49	0.04	0.00	0.00	0.33	0.03
80030	80030	80040	-548.71	0.06	0.00	0.00	0.39	0.05
80040	80040	80050	-711.48	0.10	0.00	0.00	0.50	0.08
80050	80050	80060	-803.18	0.12	0.00	0.00	0.57	0.09
80060	80060	80070	-928.94	0.15	0.00	0.00	0.66	0.12
80070	80070	80080	-986.58	0.19	0.00	0.00	0.70	0.14
80080	80080	80090	-1241.17	0.29	0.00	0.00	0.88	0.21
80090	80090	80100	-1241.17	0.12	0.00	0.00	0.88	0.21
80100	80100	10190	-1241.17	0.30	0.00	0.00	0.88	0.21
80200	52010	80200	106.62	0.03	0.00	0.00	0.19	0.02
80210	80200	80210	11.25	0.00	0.00	0.00	0.02	0.00
80220	80210	80220	-34.60	0.00	0.00	0.00	0.06	0.00
80230	80220	80230	-101.42	0.03	0.00	0.00	0.18	0.02
80235	80230	80010	-177.40	0.08	0.00	0.00	0.32	0.06
80300	80020	80300	66.87	0.04	0.00	0.00	0.19	0.03
80305	80300	750	-18.02	0.00	0.00	0.00	0.05	0.00
80400	80220	80400	-9.16	0.00	0.00	0.00	0.03	0.00
80410	80400	80410	-37.46	0.01	0.00	0.00	0.11	0.01
80420	80410	80420	-65.76	0.04	0.00	0.00	0.19	0.03
80430	80420	80430	-94.05	0.07	0.00	0.00	0.27	0.05
80440	80430	80040	-122.35	0.11	0.00	0.00	0.35	0.08
80500	80040	80500	-69.62	0.03	0.00	0.00	0.20	0.03
80510	80500	80510	-112.06	0.10	0.00	0.00	0.32	0.07
80520	80510	80520	-154.50	0.17	0.00	0.00	0.44	0.13
80525	80520	80080	-196.95	0.26	0.00	0.00	0.56	0.20





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	197.78	67.50	130.28	56.45
10		0.00	196.88	67.50	129.38	56.06
15		0.00	195.72	66.50	129.22	55.99
20		0.00	194.69	66.50	128.19	55.55
30		0.00	193.79	64.00	129.79	56.24
40		0.00	193.52	62.50	131.02	56.77
50		4.06	193.38	61.00	132.38	57.36
60		4.98	192.71	60.50	132.21	57.29
70		4.98	192.19	60.00	132.19	57.28
80		0.42	191.44	58.00	133.44	57.82
90		4.77	191.14	57.50	133.64	57.91
100		7.26	191.03	57.00	134.03	58.08
210		0.00	196.28	68.50	127.78	55.37
220		0.00	194.53	68.50	126.03	54.61
230		0.00	194.19	67.00	127.19	55.12
240		0.00	193.23	66.00	127.23	55.13
250		0.00	192.19	64.50	127.69	55.33
260		54.08	191.46	64.00	127.46	55.23
270		7.86	191.25	63.00	128.25	55.57
280		0.00	191.13	62.50	128.63	55.74
300		15.85	190.84	62.00	128.84	55.83
305		9.27	190.61	61.00	129.61	56.16
310		9.64	190.51	60.50	130.01	56.34
315		10.48	190.43	60.00	130.43	56.52
320		13.36	190.52	59.50	131.02	56.78
325		18.47	190.73	58.50	132.23	57.30
330		12.10	190.90	58.00	132.90	57.59
335		4.77	190.95	57.80	133.15	57.70
400		8.23	190.16	59.50	130.66	56.62
405		8.20	189.92	59.00	130.92	56.73
410		8.20	189.69	59.00	130.69	56.63
415		13.20	189.57	58.50	131.07	56.80
420		8.20	189.29	58.00	131.29	56.89
425		16.01	189.09	57.50	131.59	57.02
430		0.00	188.97	57.50	131.47	56.97
435		7.36	188.88	57.00	131.88	57.15
440		3.69	188.71	56.00	132.71	57.51
445		2.10	188.63	55.80	132.83	57.56
450		14.54	188.56	55.80	132.76	57.53
455		14.41	188.42	55.60	132.82	57.56
457		7.94	188.44	55.20	133.24	57.74
459		14.12	188.49	53.80	134.69	58.37
460	9TH & BROA	0.00	188.53	53.50	135.03	58.51





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	13.62	188.55	52.70	135.85	58.87
470		4.48	188.65	52.50	136.15	59.00
475		1.55	188.72	52.80	135.92	58.90
480		0.97	188.81	53.30	135.51	58.72
485		7.62	188.86	53.50	135.36	58.65
490		21.01	189.19	53.80	135.39	58.67
495		17.92	189.58	54.00	135.58	58.75
500		10.72	189.97	54.80	135.17	58.57
505		15.62	190.23	55.70	134.53	58.30
510		12.60	190.58	56.40	134.18	58.14
600		7.36	188.24	55.50	132.74	57.52
605		12.97	188.12	55.30	132.82	57.56
610		26.62	187.83	55.00	132.83	57.56
615		8.20	187.67	54.00	133.67	57.93
620		8.83	187.52	53.00	134.52	58.29
625		6.13	187.47	52.00	135.47	58.71
630		1.83	187.43	51.80	135.63	58.77
635		1.83	187.40	51.70	135.70	58.80
640		2.62	187.37	51.50	135.87	58.88
645		44.88	187.36	51.50	135.86	58.87
650		0.00	187.36	51.40	135.96	58.92
655		10.51	187.35	51.30	136.05	58.96
660		9.51	187.34	51.00	136.34	59.08
700		16.90	188.38	52.50	135.88	58.88
705		7.44	188.13	52.20	135.93	58.90
710		9.20	187.76	51.70	136.06	58.96
715		7.60	187.69	51.40	136.29	59.06
720		20.59	187.57	51.20	136.37	59.09
725		11.03	187.49	50.80	136.69	59.23
730		18.21	187.38	50.60	136.78	59.27
735		20.49	187.33	50.40	136.93	59.34
740		18.94	187.31	50.20	137.11	59.41
745		9.51	187.28	50.20	137.08	59.40
750		0.00	187.27	49.80	137.47	59.57
800		7.41	189.94	60.50	129.44	56.09
810		13.65	189.75	61.80	127.95	55.44
820		7.86	189.63	63.00	126.63	54.87
830		7.86	189.57	63.40	126.17	54.67
840		4.59	189.45	63.60	125.85	54.54
850		0.00	189.28	63.00	126.28	54.72
860		7.47	189.46	63.60	125.86	54.54
870		2.62	189.67	60.70	128.97	55.89
880		7.00	189.83	60.00	129.83	56.26



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		7.00	190.06	59.70	130.36	56.49
900		8.20	189.28	59.00	130.28	56.46
910		26.93	189.28	59.80	129.48	56.11
920		19.94	189.15	60.30	128.85	55.84
935		2.93	189.05	61.70	127.35	55.18
940		2.93	188.99	62.00	126.99	55.03
950		6.24	188.92	62.50	126.42	54.78
960		6.76	188.84	63.00	125.84	54.53
970		9.62	188.78	63.50	125.28	54.29
980		2.88	188.74	63.50	125.24	54.27
1000		16.22	191.51	63.00	128.51	55.69
1010		17.19	191.61	62.00	129.61	56.16
1015		7.94	192.19	61.60	130.59	56.59
1030		2.62	191.61	64.20	127.41	55.21
1040		9.22	191.59	64.00	127.59	55.29
1050		8.91	191.58	63.00	128.58	55.72
1060		11.08	191.60	62.90	128.70	55.77
1070		11.66	191.76	62.40	129.36	56.06
1080		10.64	192.24	62.00	130.24	56.44
1090		7.94	192.21	62.00	130.21	56.42
1100		5.08	191.54	63.00	128.54	55.70
1110		7.34	191.58	62.60	128.98	55.89
1150		9.56	191.56	64.20	127.36	55.19
1155		7.15	191.56	63.80	127.76	55.36
1160		9.25	191.57	63.50	128.07	55.50
1170		5.08	191.55	64.30	127.25	55.14
1175		2.70	191.55	64.00	127.55	55.27
1180		2.70	191.55	63.80	127.75	55.36
1185		4.77	191.56	63.60	127.96	55.45
1200		9.30	191.59	63.00	128.59	55.72
1205		7.13	191.57	63.60	127.97	55.45
1210		9.90	191.62	62.80	128.82	55.82
1220		7.73	191.57	63.80	127.77	55.37
1225		5.03	191.57	63.50	128.07	55.50
1240		5.37	191.55	64.30	127.25	55.14
1245		5.37	191.55	64.00	127.55	55.27
1250		5.37	191.55	63.80	127.75	55.36
1255		5.37	191.56	63.60	127.96	55.45
1260		4.59	191.56	63.50	128.06	55.49
1265		6.34	191.56	63.40	128.16	55.54
1270		6.34	191.57	63.30	128.27	55.58
1275		20.51	191.85	63.50	128.35	55.62
1300		12.18	191.16	62.30	128.86	55.84



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		16.61	191.41	61.50	129.91	56.30
1310		0.00	191.13	62.00	129.13	55.96
1315		9.96	191.11	63.00	128.11	55.51
1320		14.38	191.11	61.20	129.91	56.29
1325		4.98	190.86	61.10	129.76	56.23
1330		8.36	190.88	61.00	129.88	56.28
1335		16.45	191.04	60.90	130.14	56.39
1350		9.54	191.33	60.80	130.53	56.56
1360		89.08	189.36	60.80	128.56	55.71
1365		89.08	188.61	61.20	127.41	55.21
1370		89.08	188.98	60.60	128.38	55.63
1400		9.69	190.81	60.20	130.61	56.60
1403		7.47	190.70	59.80	130.90	56.72
1405		10.09	190.86	60.70	130.16	56.40
1420		5.24	190.87	59.80	131.07	56.80
1425		8.38	190.91	59.50	131.41	56.95
1430		5.50	190.98	59.20	131.78	57.10
1435		15.20	191.00	60.00	131.00	56.77
1440		7.34	191.08	60.00	131.08	56.80
1445		4.98	190.88	59.40	131.48	56.97
1450		3.67	190.97	59.10	131.87	57.14
1455		5.24	190.76	59.00	131.76	57.10
1460		7.60	190.81	59.00	131.81	57.12
1465		3.67	190.90	58.70	132.20	57.29
1470		4.98	190.76	58.50	132.26	57.31
1475		0.00	190.89	58.00	132.89	57.58
1540		18.73	191.05	58.80	132.25	57.31
1600		4.79	190.16	59.20	130.96	56.75
1605		9.51	190.17	58.30	131.87	57.14
1610		5.00	190.02	57.20	132.82	57.55
1615		4.72	190.10	57.40	132.70	57.51
1620		0.00	190.08	56.80	133.28	57.76
1625		12.05	190.16	56.80	133.36	57.79
1630		12.05	190.35	57.50	132.85	57.57
1635		8.46	190.63	58.20	132.43	57.39
1640		3.93	190.13	56.50	133.63	57.91
1645		7.34	190.21	56.80	133.41	57.81
1647		3.77	190.41	56.80	133.61	57.90
1650		7.34	190.48	57.20	133.28	57.75
1653		3.69	190.70	57.50	133.20	57.72
1655		3.67	190.74	57.80	132.94	57.61
1700		16.45	189.57	56.00	133.57	57.88
1702		32.51	189.71	56.30	133.41	57.81





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		7.89	190.05	56.00	134.05	58.09
1750		19.39	188.88	56.00	132.88	57.58
1755		19.60	188.99	54.70	134.29	58.19
1770		6.60	188.70	55.40	133.30	57.76
1775		11.53	188.70	54.30	134.40	58.24
1780		9.51	188.75	54.00	134.75	58.39
1790		2.10	188.68	55.00	133.68	57.93
1800		25.15	188.61	53.80	134.81	58.42
1805		24.68	188.71	53.40	135.31	58.64
1880		0.71	188.12	55.00	133.12	57.69
1900		15.20	187.83	53.60	134.23	58.17
1905		7.15	187.67	53.00	134.67	58.36
1910		8.25	187.53	52.50	135.03	58.51
1915		6.29	187.47	51.80	135.67	58.79
1920		11.61	187.37	51.50	135.87	58.88
1925		6.16	187.38	51.50	135.88	58.88
1930		5.45	187.36	51.50	135.86	58.87
1935		12.39	188.35	53.00	135.35	58.65
1940		20.04	188.04	52.80	135.24	58.60
1945		6.03	187.87	52.80	135.07	58.53
1950		12.97	187.68	52.50	135.18	58.58
1955		16.11	187.55	52.00	135.55	58.74
1960		13.49	187.48	51.50	135.98	58.92
1965		19.47	187.38	51.30	136.08	58.97
1970		15.96	187.36	51.20	136.16	59.00
1975		9.01	188.36	52.70	135.66	58.79
1980		14.72	188.05	52.40	135.65	58.78
1982		2.31	187.75	52.20	135.55	58.74
1985		5.50	187.75	52.20	135.55	58.74
1990		10.72	187.68	52.00	135.68	58.80
1995		13.23	187.56	51.50	136.06	58.96
2000		6.86	187.49	51.00	136.49	59.15
2005		9.51	187.37	51.00	136.37	59.10
2010		9.51	187.34	51.00	136.34	59.08
2015		9.51	187.31	51.00	136.31	59.07
2020		9.51	187.30	51.00	136.30	59.06
2200		0.00	193.79	67.50	126.29	54.73
2210		0.00	193.34	67.50	125.84	54.53
2220		0.00	193.11	67.50	125.61	54.43
2230		0.00	192.85	67.50	125.35	54.32
2300		5.11	193.09	67.50	125.59	54.42
2310		3.54	193.09	67.50	125.59	54.42
2320		1.57	193.09	67.50	125.59	54.42



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		5.11	193.09	67.50	125.59	54.42
2340		3.54	193.09	67.35	125.74	54.49
2350		1.57	193.09	67.50	125.59	54.42
2360		7.73	193.08	67.50	125.58	54.42
2370		3.54	193.08	67.50	125.58	54.42
2380		1.57	193.08	67.00	126.08	54.64
2400		0.00	195.22	65.00	130.22	56.43
2410		0.00	195.33	65.00	130.33	56.48
2420		0.00	195.43	65.50	129.93	56.30
2430		7.86	195.42	65.50	129.92	56.30
2440		7.86	195.53	66.00	129.53	56.13
2450		7.86	195.53	66.00	129.53	56.13
2460		7.86	195.53	66.00	129.53	56.13
2470		7.86	195.53	66.00	129.53	56.13
3000		8.72	190.68	62.70	127.98	55.46
3005		5.97	190.63	63.00	127.63	55.31
3010		10.09	190.53	63.80	126.73	54.92
3015		6.21	190.46	64.10	126.36	54.76
3020		8.83	190.42	65.10	125.32	54.31
3025		2.62	190.40	66.00	124.40	53.91
3030		9.46	190.83	66.20	124.63	54.01
3035		0.00	191.04	66.60	124.44	53.92
3040		0.00	191.21	66.80	124.41	53.91
3045		4.45	190.81	67.00	123.81	53.65
3050		0.00	190.60	67.30	123.30	53.43
3055	23RD & OCO	9.43	190.44	67.50	122.94	53.27
3060		7.05	190.31	68.00	122.31	53.00
3065		3.93	190.19	66.60	123.59	53.56
3070		10.48	190.03	66.50	123.53	53.53
3075		5.24	189.79	67.00	122.79	53.21
3080		0.00	189.70	67.00	122.70	53.17
3100		0.00	190.89	63.00	127.89	55.42
3105		0.42	190.89	63.00	127.89	55.42
3110		2.10	190.94	63.50	127.44	55.23
3115		3.14	190.99	64.00	126.99	55.03
3130		13.76	190.98	64.50	126.48	54.81
3140		7.60	190.90	65.10	125.80	54.51
3145		7.60	190.87	65.30	125.57	54.41
3147		7.86	190.87	65.50	125.37	54.33
3150		13.76	190.89	65.50	125.39	54.34
3200		5.45	190.79	66.00	124.79	54.07
3205		13.94	190.77	66.40	124.37	53.90
3210		0.00	190.77	66.50	124.27	53.85



CITY OF EL CENTRO WATER MASTER PLAN UPDATE  
JUNCTION NODE RESULTS

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JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		11.40	190.77	67.00	123.77	53.63
3220		3.12	190.77	67.20	123.57	53.55
3225		9.90	190.81	65.90	124.91	54.13
3230		15.14	190.78	66.30	124.48	53.94
3235		11.40	190.77	66.80	123.97	53.72
3240		3.12	190.77	67.00	123.77	53.63
3245		8.36	190.80	65.00	125.80	54.51
3247		5.19	190.78	65.30	125.48	54.38
3250		14.93	190.78	65.90	124.88	54.11
3252		13.47	190.78	66.10	124.68	54.03
3255		12.42	190.79	66.60	124.19	53.82
3257		11.40	190.78	66.70	124.08	53.77
3259		3.12	190.78	66.90	123.88	53.68
3260		8.59	190.62	63.50	127.12	55.09
3262		2.31	190.62	63.40	127.22	55.13
3265		8.59	190.66	64.20	126.46	54.80
3267		2.31	190.66	64.10	126.56	54.84
3270		8.38	190.80	64.40	126.40	54.77
3275		8.59	190.77	64.60	126.17	54.67
3277		2.31	190.77	64.50	126.27	54.72
3280		6.29	190.75	65.50	125.25	54.28
3285		6.29	190.72	65.10	125.62	54.44
3290		22.11	190.63	64.80	125.83	54.53
3295		17.03	190.56	64.30	126.26	54.71
3300		10.74	190.49	65.90	124.59	53.99
3305		7.00	190.53	66.20	124.33	53.88
3310		3.41	190.53	66.30	124.23	53.83
3315		7.00	190.60	66.30	124.30	53.86
3320		3.41	190.60	66.40	124.20	53.82
3325		7.00	190.68	66.40	124.28	53.85
3330		3.41	190.68	66.50	124.18	53.81
3400		4.59	190.29	64.90	125.39	54.34
3405		2.62	190.29	65.00	125.29	54.29
3410		6.55	190.18	64.40	125.78	54.50
3415		2.62	190.18	64.50	125.68	54.46
3420		4.59	189.94	63.90	126.04	54.62
3425		2.62	189.94	64.00	125.94	54.58
3430		4.59	189.75	63.70	126.05	54.62
3435		2.62	189.75	63.80	125.95	54.58
3440		7.86	189.71	63.10	126.61	54.87
3450		13.65	189.93	62.20	127.73	55.35
3460		7.41	190.18	61.00	129.18	55.98
3470		7.41	190.33	61.30	129.03	55.91





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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		13.65	190.19	62.50	127.69	55.33
3490		7.55	190.20	63.50	126.70	54.90
3500		8.86	190.22	64.00	126.22	54.69
3510		8.59	190.31	63.00	127.31	55.17
3520		11.48	190.51	62.00	128.51	55.69
3530		10.74	190.51	62.30	128.21	55.56
3540		14.75	190.37	63.30	127.07	55.07
3550		7.86	190.25	64.20	126.05	54.62
3600		8.20	189.78	60.20	129.58	56.15
3605		10.48	189.67	61.10	128.57	55.72
3610		8.20	189.62	59.90	129.72	56.21
3615		8.20	189.57	60.60	128.97	55.89
3620		8.20	189.49	59.50	129.99	56.33
3625		8.20	189.44	60.10	129.34	56.05
3630		8.20	189.00	58.70	130.30	56.46
3635		20.02	188.95	59.30	129.65	56.18
3640		0.00	188.93	58.30	130.63	56.61
3643		0.00	188.90	58.90	130.00	56.33
3645		2.99	188.89	59.00	129.89	56.29
3650		3.38	188.71	56.30	132.41	57.38
3660		0.00	188.90	58.30	130.60	56.59
3665		18.81	188.69	58.50	130.19	56.42
3670		0.00	188.90	58.30	130.60	56.59
3675		0.00	188.63	58.30	130.33	56.48
3680		0.00	188.90	58.00	130.90	56.72
3685		5.79	188.77	60.00	128.77	55.80
3690		0.00	188.90	57.80	131.10	56.81
3695		14.86	188.68	59.70	128.98	55.89
3697		14.70	188.69	59.20	129.49	56.11
3698		0.00	188.62	59.20	129.42	56.08
4000		11.69	190.48	67.20	123.28	53.42
4010		10.03	190.30	67.00	123.30	53.43
4020		10.03	190.17	67.00	123.17	53.38
4030		12.05	190.20	67.30	122.90	53.26
4040		6.92	190.25	67.30	122.95	53.28
4050		5.00	190.46	67.30	123.16	53.37
4060		7.78	190.45	67.40	123.05	53.32
4070		14.44	190.44	67.20	123.24	53.40
4080		5.24	190.44	67.20	123.24	53.40
4100		5.24	189.81	66.50	123.31	53.43
4105		12.24	189.85	66.10	123.75	53.62
4110		7.00	189.94	66.00	123.94	53.71
4115		5.24	189.69	66.00	123.69	53.60





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		12.24	189.71	65.80	123.91	53.69
4125		7.00	189.76	65.00	124.76	54.06
4130		2.62	189.55	65.80	123.75	53.63
4135		9.69	189.57	65.50	124.07	53.76
4140		6.29	189.59	65.30	124.29	53.86
4145		6.29	189.64	65.00	124.64	54.01
4150		3.67	189.59	65.00	124.59	53.99
4155		3.67	189.64	64.60	125.04	54.18
4200		5.84	189.26	63.80	125.46	54.36
4205		5.84	189.12	63.20	125.92	54.57
4210		5.84	189.06	61.90	127.16	55.10
4220		7.47	189.39	64.00	125.39	54.33
4225		19.39	189.35	64.30	125.05	54.19
4230		5.84	189.23	63.50	125.73	54.48
4235		12.47	189.22	63.80	125.42	54.35
4240		5.84	189.10	63.00	126.10	54.65
4245		12.47	189.10	63.50	125.60	54.43
4250		5.84	189.02	62.70	126.32	54.74
4255		12.44	188.99	63.00	125.99	54.60
4260		7.47	189.34	64.50	124.84	54.10
4265		10.35	189.34	64.80	124.54	53.97
4266		0.00	189.41	65.00	124.41	53.91
4267		2.59	189.34	65.00	124.34	53.88
4270		6.63	189.21	64.00	125.21	54.26
4275		9.51	189.21	64.30	124.91	54.13
4278		2.88	189.21	64.60	124.61	54.00
4280		6.63	189.09	63.60	125.49	54.38
4285		6.63	189.09	63.60	125.49	54.38
4290		6.60	188.97	62.50	126.47	54.80
4295		6.60	188.95	62.50	126.45	54.79
4300		6.94	188.72	62.00	126.72	54.91
4310		6.94	188.65	61.30	127.35	55.19
4320		6.94	188.60	60.50	128.10	55.51
4330		6.94	188.56	60.30	128.26	55.58
4340		9.82	188.72	62.30	126.42	54.78
4350		9.82	188.65	61.60	127.05	55.06
4360		6.94	188.60	61.20	127.40	55.21
4370		6.94	188.56	60.60	127.96	55.45
4380		2.88	188.72	62.50	126.22	54.69
4390		2.88	188.65	61.90	126.75	54.93
4400		4.85	188.55	60.00	128.55	55.70
4410		9.82	188.57	60.00	128.57	55.71
4420		4.98	188.60	60.00	128.60	55.73



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		3.93	188.60	60.00	128.60	55.73
4500		16.58	188.55	57.00	131.55	57.01
4510		28.51	188.55	58.00	130.55	56.57
4520		51.93	188.54	59.00	129.54	56.14
4530		7.47	188.53	59.40	129.13	55.96
4540		4.09	188.53	60.30	128.23	55.56
4550		8.93	188.53	60.50	128.03	55.48
4560		4.09	188.53	60.80	127.73	55.35
4570		2.31	188.53	60.00	128.53	55.70
4580	MAIN BTW L	2.31	188.53	60.00	128.53	55.70
4590		2.31	188.53	61.40	127.13	55.09
4600		10.74	188.24	56.30	131.94	57.17
4610		0.00	188.25	57.00	131.25	56.88
4620		0.00	188.27	58.20	130.07	56.36
4700		2.20	187.83	55.20	132.63	57.47
4710		21.22	187.83	55.80	132.03	57.21
4720		18.92	187.86	56.30	131.56	57.01
4730		0.00	187.87	56.80	131.07	56.80
4740		19.68	187.92	57.00	130.92	56.73
4750		5.24	187.94	57.00	130.94	56.74
4800		46.92	187.52	53.20	134.32	58.20
4810		9.82	187.66	54.20	133.46	57.83
4820		0.00	187.74	54.60	133.14	57.69
4830		0.00	187.82	55.20	132.62	57.47
4840		0.00	187.84	56.50	131.34	56.92
4850		0.21	187.66	55.30	132.36	57.35
4870		55.28	187.38	55.00	132.38	57.37
4880		0.00	187.85	56.00	131.85	57.13
4900		38.54	187.43	51.80	135.63	58.77
4910		5.82	187.40	51.70	135.70	58.80
4920		0.00	187.39	51.60	135.79	58.84
4930		0.84	187.37	51.50	135.87	58.88
4940		46.37	187.35	51.30	136.05	58.96
4947		12.31	187.35	51.60	135.75	58.83
4950		1.31	187.38	51.80	135.58	58.75
4955		12.31	187.35	51.90	135.45	58.70
4960		1.31	187.38	52.70	134.68	58.36
4965		3.93	187.38	52.70	134.68	58.36
4970		0.00	187.38	53.70	133.68	57.93
4975		15.46	187.38	54.00	133.38	57.80
4977		5.76	187.38	52.60	134.78	58.40
4980		5.76	187.37	52.30	135.07	58.53
4985		5.76	187.39	52.70	134.69	58.37



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	26.30	187.43	53.00	134.43	58.25
4995		0.00	187.36	52.10	135.26	58.61
5000		12.60	189.06	61.70	127.36	55.19
5010		0.00	188.86	61.00	127.86	55.41
5020		0.00	188.69	60.30	128.39	55.63
5030		6.68	188.53	59.80	128.73	55.78
5040		0.00	188.29	58.80	129.49	56.11
5050		0.00	188.01	58.20	129.81	56.25
5060		0.00	187.87	57.40	130.47	56.54
5070		0.00	187.65	55.70	131.95	57.18
5080		0.00	187.49	54.50	132.99	57.63
5090		0.00	187.42	52.20	135.22	58.60
5100		0.00	187.40	53.50	133.90	58.02
5110		6.39	187.38	53.50	133.88	58.01
5120		8.91	187.38	54.00	133.38	57.80
5130		8.91	187.38	55.90	131.48	56.97
5140		14.15	187.38	55.00	132.38	57.36
5150		5.76	187.40	54.50	132.90	57.59
5160		7.91	187.38	54.10	133.28	57.75
5170		5.76	187.39	53.00	134.39	58.23
5180		6.55	187.38	53.00	134.38	58.23
5190		5.24	187.35	51.70	135.65	58.78
5200		4.27	187.35	52.10	135.25	58.61
5205		4.27	187.34	51.80	135.54	58.73
5210		8.57	187.33	51.60	135.73	58.82
5215		4.27	187.33	51.40	135.93	58.90
5220		4.27	187.32	51.10	136.22	59.03
5230		4.53	187.33	51.30	136.03	58.95
5235		52.79	187.34	51.90	135.44	58.69
5240		3.22	187.34	52.30	135.04	58.52
5250		6.55	187.33	51.90	135.43	58.69
5255		6.42	187.33	51.80	135.53	58.73
5260		12.84	187.32	51.40	135.92	58.90
5265		6.42	187.32	51.00	136.32	59.07
5270		1.21	187.31	51.30	136.01	58.94
5277		0.00	187.31	51.50	135.81	58.85
5279		14.07	187.29	51.00	136.29	59.06
5280		45.80	187.29	51.00	136.29	59.06
5290		0.00	187.29	50.10	137.19	59.45
5292		0.00	187.30	50.80	136.50	59.15
5295		3.12	187.28	50.10	137.18	59.44
5297		0.00	187.29	52.80	134.49	58.28
5500		4.09	188.49	60.00	128.49	55.68





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		4.09	188.51	60.30	128.21	55.56
5520		4.09	188.51	60.60	127.91	55.43
5530		4.09	188.45	58.70	129.75	56.23
5540		4.09	188.49	59.00	129.49	56.11
5550		4.09	188.50	59.00	129.50	56.11
6000		0.00	187.37	52.20	135.17	58.57
7000		7.86	193.59	62.00	131.59	57.02
7005		7.86	193.44	61.40	132.04	57.22
7010		22.19	193.30	60.80	132.50	57.42
7015		15.72	193.07	60.30	132.77	57.54
7020		11.71	192.93	59.50	133.43	57.82
7025		4.98	192.81	62.30	130.51	56.55
7030		11.74	192.76	62.00	130.76	56.66
7035		19.75	192.39	60.50	131.89	57.15
7040	AURORA BTW	0.84	192.19	59.00	133.19	57.71
7045		0.00	191.95	58.50	133.45	57.83
7050		9.27	191.84	57.80	134.04	58.09
7055		9.27	191.75	57.50	134.25	58.17
7060		0.00	191.54	56.00	135.54	58.73
7070		0.00	191.48	57.00	134.48	58.27
7080		1.70	191.21	57.50	133.71	57.94
7100		8.38	193.51	63.00	130.51	56.55
7110		6.29	193.15	61.00	132.15	57.26
7120		9.96	193.08	60.50	132.58	57.45
7130		10.48	193.05	59.50	133.55	57.87
7140		6.29	193.12	62.00	131.12	56.82
7150		9.96	193.08	60.80	132.28	57.32
7160		10.48	193.08	59.10	133.98	58.06
7200		6.65	193.12	62.50	130.62	56.60
7210		6.21	193.22	62.50	130.72	56.65
7300		1.76	192.87	62.00	130.87	56.71
7310		5.24	193.30	62.00	131.30	56.90
7320		5.24	193.27	61.60	131.67	57.06
7330		4.38	193.06	62.00	131.06	56.79
7340		4.38	192.73	61.00	131.73	57.08
7350		5.24	192.66	60.20	132.46	57.40
7360		6.60	192.64	59.50	133.14	57.70
7370		5.24	192.33	60.40	131.93	57.17
7380		6.60	192.32	59.50	132.82	57.56
7390		1.60	191.91	60.00	131.91	57.16
7400		10.22	192.24	60.90	131.34	56.92
7405		10.22	192.10	62.00	130.10	56.38
7410		18.60	192.01	61.00	131.01	56.77



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		11.11	191.95	59.50	132.45	57.39
7420		12.84	191.91	60.20	131.71	57.08
7425		5.66	191.90	60.60	131.30	56.90
7430		10.22	191.83	60.70	131.13	56.82
7435		10.22	191.76	61.50	130.26	56.44
7440		16.93	191.73	61.00	130.73	56.65
7445		12.58	191.71	59.70	132.01	57.20
7450		7.70	191.89	59.50	132.39	57.37
7455		10.22	191.56	60.50	131.06	56.79
7460		10.22	191.50	61.20	130.30	56.47
7465		16.61	191.49	60.50	130.99	56.76
7470		12.52	191.47	59.50	131.97	57.19
7475		0.31	191.21	58.00	133.21	57.72
7480		11.66	191.37	60.30	131.07	56.80
7485		10.22	191.32	61.00	130.32	56.47
7490		21.09	191.30	60.00	131.30	56.90
7495		17.42	191.26	59.30	131.96	57.18
7500		9.17	191.21	57.90	133.31	57.77
7505		3.67	191.30	60.00	131.30	56.90
7510		7.34	191.22	60.00	131.22	56.86
7515		7.34	191.22	59.40	131.82	57.12
7520		7.34	191.19	58.40	132.79	57.54
7525		5.08	191.18	57.50	133.68	57.93
7530		3.67	191.14	59.00	132.14	57.26
7535		7.34	191.11	58.50	132.61	57.46
7540		7.34	191.09	57.80	133.29	57.76
7545		3.67	191.09	57.30	133.79	57.97
7550		7.34	191.27	59.20	132.07	57.23
7555		7.34	191.10	58.80	132.30	57.33
7560		7.34	190.99	58.30	132.69	57.50
7565		14.67	190.95	57.70	133.25	57.74
7570		14.67	190.92	57.10	133.82	57.99
7573		7.34	191.27	56.40	134.87	58.44
7575		7.34	190.91	56.40	134.51	58.29
7577		7.34	190.98	58.00	132.98	57.63
7580		0.00	191.37	58.20	133.17	57.71
7585		7.34	190.86	57.50	133.36	57.79
7590		13.89	190.86	56.90	133.96	58.05
7595		13.89	190.76	56.30	134.46	58.27
7600		6.94	190.75	55.60	135.15	58.56
7605		5.58	191.37	57.30	134.07	58.10
7610		6.55	190.67	56.60	134.07	58.10
7615		13.10	190.62	56.20	134.42	58.25



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		13.28	190.60	55.70	134.90	58.45
7625		6.73	190.59	55.10	135.49	58.71
7700		13.10	190.40	55.90	134.51	58.29
7705		12.50	190.34	55.00	135.34	58.65
7710		12.37	190.32	54.00	136.32	59.07
7715		6.55	190.38	53.80	136.58	59.18
7720		18.94	190.22	55.00	135.22	58.59
7725		13.96	190.13	54.10	136.03	58.95
7730		11.08	190.12	53.70	136.42	59.11
7735		5.71	190.12	53.50	136.62	59.20
7740		10.93	190.04	54.40	135.64	58.78
7745		10.64	190.00	53.70	136.30	59.06
7750		14.57	189.93	53.60	136.33	59.08
7755		11.40	189.93	53.50	136.43	59.12
7760		17.76	189.61	53.90	135.71	58.81
7765		19.02	189.56	53.60	135.96	58.92
7770		18.73	189.56	53.50	136.06	58.96
7775		8.25	189.65	53.20	136.45	59.13
7780		17.61	189.23	53.60	135.63	58.77
7785		20.28	189.16	53.50	135.66	58.79
7790		19.91	189.16	53.40	135.76	58.83
7795		7.07	189.04	53.00	136.04	58.95
7800		3.07	188.96	53.40	135.56	58.74
7805		1.05	189.10	53.40	135.70	58.80
7810		1.05	189.01	53.30	135.71	58.81
7815		1.31	188.99	53.30	135.69	58.80
7820		3.41	188.94	53.10	135.84	58.86
7825		2.10	188.81	50.80	138.01	59.80
7830		5.24	188.64	52.70	135.94	58.91
7835		1.70	188.67	52.80	135.87	58.88
7840		3.93	188.71	52.60	136.11	58.98
7845		3.01	188.73	52.20	136.53	59.16
7850		4.82	188.33	52.10	136.23	59.03
7855		2.72	188.32	52.20	136.12	58.99
7860		2.62	188.32	51.90	136.42	59.12
7865		2.62	188.50	52.00	136.50	59.15
7870		4.40	188.50	51.80	136.70	59.24
7875		49.78	188.05	52.00	136.05	58.95
7880		0.00	188.12	52.00	136.12	58.99
7885		49.78	187.95	52.00	135.95	58.91
7890		49.78	187.26	52.00	135.26	58.61
7895		1.31	187.48	52.00	135.48	58.71
7900		12.47	188.84	53.30	135.54	58.73





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		10.90	188.83	53.30	135.53	58.73
7910		10.40	188.83	53.20	135.63	58.77
7915		2.12	188.80	52.80	136.00	58.93
7917		0.00	188.80	52.50	136.30	59.06
7920		5.37	188.76	52.90	135.86	58.87
7925		5.24	188.75	53.00	135.75	58.83
7930		5.24	188.75	52.80	135.95	58.91
7935		3.93	188.75	52.40	136.35	59.09
7937		0.29	188.73	52.10	136.63	59.21
7940		11.27	188.47	52.50	135.97	58.92
7945		11.27	188.56	52.40	136.16	59.00
7950		8.65	188.66	52.30	136.36	59.09
7955		4.72	188.69	52.00	136.69	59.23
8000		7.39	187.52	51.70	135.82	58.85
8005		8.59	187.50	51.60	135.90	58.89
8010		7.07	187.50	51.40	136.10	58.98
8015		2.17	187.50	51.30	136.20	59.02
8020		7.39	187.52	51.50	136.02	58.94
8025		8.93	187.50	51.40	136.10	58.98
8030		11.40	187.50	51.30	136.20	59.02
8035		6.16	187.49	51.90	135.59	58.76
8040		13.68	187.53	51.20	136.33	59.08
8045	6TH & EUCL	13.68	187.53	51.20	136.33	59.07
8050		11.53	187.52	50.80	136.72	59.25
8055		4.72	187.54	50.00	137.54	59.60
8060		11.00	187.48	50.90	136.58	59.19
8065		7.86	187.28	50.80	136.48	59.14
8070		10.48	187.41	50.40	137.01	59.37
8075		8.80	187.47	50.60	136.87	59.31
8080		4.53	187.37	50.50	136.87	59.31
8085		4.53	187.37	50.50	136.87	59.31
8090		58.06	187.15	49.50	137.65	59.65
8095		9.69	187.15	48.40	138.75	60.12
8100		0.00	187.20	49.50	137.70	59.67
8105		6.34	187.16	49.00	138.16	59.87
8110		3.96	187.15	48.70	138.45	59.99
8115		3.96	187.15	48.40	138.75	60.12
8120		6.34	187.15	48.00	139.15	60.30
8125		1.31	187.15	48.00	139.15	60.30
8130		1.31	187.15	47.70	139.45	60.43
8135		2.83	187.15	48.80	138.35	59.95
8140		0.55	187.15	49.50	137.65	59.65
8145		16.82	187.14	48.70	138.44	59.99





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.52	187.61	49.50	138.11	59.85
8205		0.50	187.61	49.00	138.61	60.06
8210		0.00	187.61	48.50	139.11	60.28
8215		7.55	187.71	48.70	139.01	60.24
8220		12.05	187.89	47.90	139.99	60.66
8225		10.43	188.16	47.70	140.46	60.86
8230		12.05	187.74	48.00	139.74	60.55
8235		12.05	187.89	47.50	140.39	60.84
8240		12.05	188.12	47.20	140.92	61.06
8250		6.03	187.74	47.50	140.24	60.77
8255		6.03	187.81	47.20	140.61	60.93
8260		6.03	187.82	47.20	140.62	60.93
8265		9.96	188.11	46.80	141.31	61.23
8270		3.14	187.81	47.20	140.61	60.93
8275		3.14	187.81	47.00	140.81	61.02
8280		3.14	187.81	46.80	141.01	61.10
8285		4.85	187.81	46.80	141.01	61.10
8290		4.85	187.81	46.80	141.01	61.10
8295		0.86	187.81	47.00	140.81	61.02
8300		2.28	188.42	49.50	138.92	60.20
8310		0.00	188.31	48.40	139.91	60.63
8320		0.47	188.20	47.80	140.40	60.84
8330		0.00	188.34	48.10	140.24	60.77
8340		0.00	188.38	48.00	140.38	60.83
8350		2.62	188.38	48.00	140.38	60.83
8360		0.00	188.20	47.60	140.60	60.93
8370		0.00	188.20	47.50	140.70	60.97
8380		3.93	188.51	48.60	139.91	60.63
8400		4.35	190.05	53.30	136.75	59.26
8410		0.31	190.05	53.00	137.05	59.39
8420		0.00	190.05	53.00	137.05	59.39
8430		0.31	190.05	53.20	136.85	59.30
8440		0.58	190.05	53.00	137.05	59.39
8450		0.52	190.05	52.80	137.25	59.47
8460		0.68	190.04	52.70	137.34	59.52
8470		0.68	190.04	52.50	137.54	59.60
8500		0.65	189.79	53.10	136.69	59.23
8510		0.94	189.60	52.70	136.90	59.32
8515		0.00	189.60	52.70	136.90	59.32
8520		0.55	189.43	52.00	137.43	59.55
8525		4.03	189.43	52.40	137.03	59.38
8530		0.13	189.35	52.00	137.35	59.52
8540		1.81	189.27	51.80	137.47	59.57



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		13.55	189.11	51.00	138.11	59.85
8560		13.39	189.11	51.80	137.31	59.50
8600		3.90	189.73	53.00	136.73	59.25
8610		12.60	189.72	52.20	137.52	59.59
8620		4.27	189.53	52.00	137.53	59.60
8630		13.76	189.50	51.70	137.80	59.71
8640		0.92	189.28	51.70	137.58	59.62
8650		5.40	189.29	51.40	137.89	59.75
8660		0.63	189.19	51.30	137.89	59.75
8670		2.36	189.16	51.10	138.06	59.83
8680		3.93	189.12	50.90	138.22	59.90
8690		0.00	188.71	49.50	139.21	60.32
8700		4.40	189.95	53.50	136.45	59.13
8710		6.31	190.07	53.70	136.37	59.09
8720		2.78	190.13	53.50	136.63	59.21
8725		5.27	190.20	54.00	136.20	59.02
8730		3.22	190.20	53.60	136.60	59.19
8735		6.47	190.28	53.80	136.48	59.14
8740		4.59	190.29	54.80	135.49	58.71
8745		4.59	190.29	54.00	136.29	59.06
8750		4.53	190.30	54.00	136.30	59.06
8755		117.90	189.02	55.20	133.82	57.99
8760		5.76	190.82	55.60	135.22	58.60
8765		1.68	190.82	54.70	136.12	58.99
8770		1.31	190.82	57.00	133.82	57.99
8775		3.93	191.46	57.00	134.46	58.27
8800		0.52	189.99	53.50	136.49	59.15
8810		6.18	190.03	53.00	137.03	59.38
8820		7.34	190.14	53.20	136.94	59.34
8830		2.44	190.25	53.20	137.05	59.39
8840		0.84	190.42	53.70	136.72	59.24
8845		0.86	190.42	53.70	136.72	59.24
8850		1.10	190.71	54.30	136.41	59.11
8900		8.33	190.04	52.10	137.94	59.77
8910		15.09	190.15	52.50	137.65	59.65
8920		6.76	190.25	52.80	137.45	59.56
8930		4.19	190.35	53.10	137.25	59.47
8940		0.29	190.44	53.40	137.04	59.38
8950		0.26	190.56	53.70	136.86	59.31
8960		1.49	190.75	54.80	135.95	58.91
8970		1.05	191.02	55.20	135.82	58.85
8975		2.83	190.88	55.00	135.88	58.88
8980		34.48	191.27	55.60	135.67	58.79



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		2.31	188.99	48.80	140.19	60.75
9010		0.10	189.16	48.80	140.36	60.82
9020		0.00	189.43	48.80	140.63	60.94
9030		0.65	189.62	49.10	140.52	60.89
9040		0.00	189.74	49.30	140.44	60.86
9050		0.00	189.80	49.50	140.30	60.80
9060		5.37	189.84	49.70	140.14	60.73
9070		5.89	189.93	50.00	139.93	60.64
9080		5.89	190.06	50.90	139.16	60.30
9090		3.01	190.18	51.40	138.78	60.14
9100		6.58	190.22	51.50	138.72	60.11
9110		0.00	190.30	52.00	138.30	59.93
9115		2.62	190.30	52.50	137.80	59.71
9120		2.44	190.44	52.60	137.84	59.73
9130		2.44	190.77	53.40	137.37	59.53
9140		0.97	190.97	54.00	136.97	59.35
9150	ROSS & McC	5.24	190.82	54.00	136.82	59.29
9160		0.00	190.77	54.00	136.77	59.27
9170		0.00	190.76	54.00	136.76	59.26
9175		4.22	190.53	53.30	137.23	59.46
9180		0.00	190.74	54.20	136.54	59.17
9190		0.00	190.75	54.80	135.95	58.91
9200		4.64	191.77	56.20	135.57	58.75
9210		4.64	191.81	56.00	135.81	58.85
9220		4.03	191.85	57.00	134.85	58.43
9230		5.97	191.85	56.80	135.05	58.52
9240		2.20	191.83	56.50	135.33	58.64
9250		4.24	191.93	57.80	134.13	58.12
9260		6.18	191.92	57.50	134.42	58.25
9270		4.06	191.95	58.50	133.45	57.83
9280		5.42	191.94	58.30	133.64	57.91
9300		0.00	192.59	61.50	131.09	56.81
9310		0.00	192.49	61.00	131.49	56.98
9320		2.36	192.58	62.00	130.58	56.59
9330		12.47	192.39	61.50	130.89	56.72
9333		1.99	192.14	61.00	131.14	56.83
9337		2.91	192.06	61.00	131.06	56.79
9340		4.59	191.94	59.00	132.94	57.61
9345		2.99	191.95	59.00	132.95	57.61
9350		5.32	191.95	60.00	131.95	57.18
9355		4.24	191.95	59.60	132.35	57.35
9360		6.08	191.97	60.50	131.47	56.97
9365		1.18	191.96	59.40	132.56	57.44





## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		3.85	191.98	60.50	131.48	56.98
9375		4.98	191.96	60.50	131.46	56.97
9380		4.48	191.98	60.80	131.18	56.84
9385		1.23	191.96	60.50	131.46	56.97
9390		5.21	191.97	60.60	131.37	56.93
9395		2.99	191.97	60.50	131.47	56.97
9400		9.59	194.98	65.00	129.98	56.32
9410		0.00	194.91	64.00	130.91	56.73
9415		1.31	194.91	65.00	129.91	56.29
9420		7.05	194.82	63.00	131.82	57.12
9425		1.31	194.91	65.00	129.91	56.29
9430		0.00	194.76	62.00	132.76	57.53
9440		18.86	194.70	62.00	132.70	57.50
9460		3.14	195.04	65.50	129.54	56.13
9470		2.44	195.08	65.50	129.58	56.15
9480		0.00	195.08	65.50	129.58	56.15
9490		5.66	194.70	62.00	132.70	57.50
9500		6.55	190.34	52.70	137.64	59.64
9505		2.36	190.41	52.20	138.21	59.89
9510		10.24	190.29	52.10	138.19	59.88
9513		0.00	190.29	51.80	138.49	60.01
9515		6.65	190.35	51.80	138.55	60.04
9520		11.61	190.15	51.50	138.65	60.08
9525		3.67	190.20	51.50	138.70	60.10
9530		11.19	190.04	51.20	138.84	60.16
9535		9.14	190.05	51.10	138.95	60.21
9540		10.43	189.83	50.80	139.03	60.25
9545		14.46	189.83	50.50	139.33	60.38
9550		0.00	189.58	51.00	138.58	60.05
9555		6.37	189.53	50.50	139.03	60.25
9560		12.73	189.76	50.00	139.76	60.56
9565		193.88	189.36	50.50	138.86	60.17
9570		0.00	189.51	50.30	139.21	60.32
9575		0.00	189.36	50.20	139.16	60.30
9580		0.18	189.06	49.50	139.56	60.48
9585		5.27	189.52	50.00	139.52	60.46
9590		3.46	189.73	49.80	139.93	60.64
9595		0.92	189.73	49.70	140.03	60.68
9600		0.00	190.39	52.00	138.39	59.97
9605		3.51	190.25	51.50	138.75	60.13
9610		2.20	190.15	51.40	138.75	60.13
9640		11.24	189.74	49.70	140.04	60.68
9650		5.69	189.74	49.40	140.34	60.81



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		3.14	189.73	49.20	140.53	60.90
9670		2.23	189.77	49.40	140.37	60.83
9673		0.00	189.78	49.50	140.28	60.79
9675		1.73	189.77	49.40	140.37	60.83
9680		11.37	189.78	49.70	140.08	60.70
9685		0.00	189.43	48.90	140.53	60.90
9687		0.00	189.43	48.80	140.63	60.94
9688		0.00	189.43	48.90	140.53	60.90
9700		1.13	190.77	53.60	137.17	59.44
9710		0.00	190.78	53.30	137.48	59.57
9720		3.80	190.79	53.30	137.49	59.58
9730		1.18	190.80	53.60	137.20	59.45
9740		0.00	190.41	52.30	138.11	59.85
9750		3.51	190.27	51.80	138.47	60.00
9760		9.56	190.18	51.50	138.68	60.09
9770		6.60	190.10	51.20	138.90	60.19
9780		14.54	189.89	50.60	139.29	60.36
9790		7.02	189.83	50.10	139.73	60.55
9800		1.99	192.08	60.50	131.58	57.02
9810		2.91	192.07	60.50	131.57	57.01
9820		5.24	192.02	60.00	132.02	57.21
9830		6.03	192.00	60.00	132.00	57.20
9840		5.24	191.99	60.00	131.99	57.20
9850		6.03	192.00	60.00	132.00	57.20
9860		5.24	191.96	58.50	133.46	57.83
9870		6.03	191.79	57.00	134.79	58.41
9880		6.03	191.77	56.50	135.27	58.62
9900		0.00	190.97	57.00	133.97	58.05
9910		0.00	190.97	58.00	132.97	57.62
9920		0.00	190.87	58.00	132.87	57.58
10000		9.82	190.60	56.40	134.20	58.15
10010	6TH & HAMI	13.10	190.53	56.00	134.53	58.30
10020		13.10	190.46	55.00	135.46	58.70
10030		11.69	190.42	55.60	134.82	58.42
10040		6.29	190.28	54.00	136.28	59.06
10050		8.49	190.20	53.70	136.50	59.15
10060		6.55	190.13	53.50	136.63	59.21
10070		0.00	190.07	53.40	136.67	59.22
10080		3.93	190.05	53.30	136.75	59.26
10090		0.24	190.00	53.30	136.70	59.24
10100		4.85	189.99	53.20	136.79	59.28
10110		4.95	189.99	53.00	136.99	59.36
10115		2.75	189.99	53.00	136.99	59.36



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		4.38	189.99	52.00	137.99	59.80
10130		4.61	189.85	51.60	138.25	59.91
10140		8.70	189.72	51.40	138.32	59.94
10150		0.00	189.61	51.00	138.61	60.06
10160		24.89	189.48	50.80	138.68	60.10
10170		5.16	189.29	50.50	138.79	60.14
10180		1.49	189.10	50.00	139.10	60.27
10185		18.37	189.06	50.00	139.06	60.26
10190		2.36	188.70	49.00	139.70	60.53
10195		0.00	188.70	49.20	139.50	60.45
10210		19.73	188.69	51.50	137.19	59.45
14100		5.24	189.76	66.50	123.26	53.41
14110		7.86	189.69	66.70	122.99	53.30
14115		2.62	189.69	66.80	122.89	53.25
14120		5.24	189.67	66.30	123.37	53.46
14130		7.86	189.64	66.50	123.14	53.36
14135		2.62	189.64	66.70	122.94	53.27
14140		4.59	189.54	65.80	123.74	53.62
14150		3.28	189.54	66.00	123.54	53.54
14160		7.21	189.52	65.50	124.02	53.74
14170		7.21	189.48	65.70	123.78	53.64
20500		0.00	197.98	67.20	130.78	56.67
23000		0.45	187.33	50.00	137.33	59.51
23010		0.00	187.30	50.00	137.30	59.50
23020		0.00	187.28	47.00	140.28	60.79
23030		0.00	187.25	46.00	141.25	61.21
23040		0.98	187.23	45.00	142.23	61.63
23050		0.00	187.30	50.00	137.30	59.50
23060		0.00	187.29	49.00	138.29	59.93
23070		5.50	187.29	48.50	138.79	60.14
23100	BRADSHAW &	0.00	187.29	47.00	140.29	60.79
23110		44.54	187.28	48.00	139.28	60.35
23120		2.80	187.28	48.50	138.78	60.14
23200		0.00	187.29	49.00	138.29	59.93
23210		0.00	187.29	49.00	138.29	59.93
23220		0.00	187.29	47.50	139.79	60.58
23230		5.50	187.29	46.50	140.79	61.01
23240		6.55	187.29	46.00	141.29	61.23
23400		0.00	187.31	49.00	138.31	59.94
23410		0.00	187.31	49.00	138.31	59.93
23420		0.00	187.30	48.00	139.30	60.36
23500		0.00	187.29	47.00	140.29	60.79
23510		0.00	187.29	47.00	140.29	60.79





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
23520		0.00	187.29	47.00	140.29	60.79
23530		0.00	187.29	47.00	140.29	60.79
23540		0.00	187.29	46.50	140.79	61.01
23550		0.00	187.29	46.00	141.29	61.23
24000		269.86	182.49	76.00	106.49	46.15
39000		0.00	194.76	68.00	126.76	54.93
39010		0.00	194.55	64.50	130.05	56.36
39020		0.00	194.63	63.00	131.63	57.04
39040		0.00	195.21	66.00	129.21	55.99
39200		0.00	193.24	63.50	129.74	56.22
39210		0.00	192.86	63.00	129.86	56.27
40000		60.26	194.00	71.00	123.00	53.30
40010		83.84	193.54	71.00	122.54	53.10
40020		113.18	193.17	70.50	122.67	53.16
40030		117.90	192.90	70.00	122.90	53.26
40040		84.89	192.77	70.00	122.77	53.20
40050		120.26	192.75	70.00	122.75	53.19
40060		0.00	192.43			
40070		0.00	192.16			
40080		0.00	192.00			
40100		19.39	193.15	70.50	122.65	53.15
40110		31.44	192.84	70.00	122.84	53.23
40115		31.44	192.78	70.00	122.78	53.21
40120		12.31	192.79	70.50	122.29	52.99
40130		12.31	192.76	71.00	121.76	52.76
40140		12.31	192.75	70.50	122.25	52.97
40150		31.44	192.74	70.00	122.74	53.19
40160		31.44	192.74	70.00	122.74	53.19
41000		117.90	194.57	72.50	122.07	52.90
41010		78.60	194.66	73.50	121.16	52.50
41020		78.60	194.84	75.00	119.84	51.93
41025		123.14	195.12	73.00	122.12	52.92
41028		157.20	195.83	71.00	124.83	54.09
41030		44.02	194.62	75.00	119.62	51.83
41040		44.02	194.61	76.00	118.61	51.40
41050		44.02	194.61	76.00	118.61	51.40
41055		68.12	194.64	76.00	118.64	51.41
41057		68.12	194.81	75.00	119.81	51.92
41060		44.02	195.11	72.50	122.61	53.13
41070		61.83	195.10	72.00	123.10	53.34
41080		70.74	195.24	69.00	126.24	54.70
41090		24.63	194.63	76.00	118.63	51.41
41100		45.85	194.63	76.00	118.63	51.41





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
41110		45.85	194.82	75.00	119.82	51.92
41120		31.44	194.78	72.00	122.78	53.20
41130		61.83	194.52	72.00	122.52	53.09
41140		21.22	194.56	74.00	120.56	52.24
41150		67.07	194.50	76.00	118.50	51.35
41160		67.07	194.50	74.00	120.50	52.22
41170		67.07	194.47	68.00	126.47	54.80
50010		84.89	189.85	67.50	122.35	53.02
50020		114.76	190.01	67.50	122.51	53.09
50030		28.30	189.76	67.00	122.76	53.20
50040		111.35	189.54	67.00	122.54	53.10
50050		83.05	189.03	65.00	124.03	53.75
50060		77.81	188.68	64.00	124.68	54.03
50070		102.18	188.25	63.00	125.25	54.28
50080		176.85	187.92	61.00	126.92	55.00
50090		128.38	187.67	59.00	128.67	55.76
50100		176.85	187.50	56.50	131.00	56.77
50110		109.52	187.39	54.00	133.39	57.80
50120		159.03	187.32	53.00	134.32	58.20
50130		148.55	187.30	54.00	133.30	57.76
51000		19.39	189.72	68.00	121.72	52.74
51010		19.39	189.62	68.00	121.62	52.70
51020		31.44	189.76	68.00	121.76	52.76
51030		31.44	189.59	68.00	121.59	52.69
51040		12.31	189.43	68.00	121.43	52.62
51050		36.68	189.38	67.50	121.88	52.82
51060		36.68	189.30	68.00	121.30	52.56
51070		24.63	188.78	67.00	121.78	52.77
51080		77.81	188.49	65.00	123.49	53.51
51090		77.81	188.44	66.00	122.44	53.06
51100		52.40	188.00	64.00	124.00	53.73
51110		77.81	187.75	64.00	123.75	53.63
51120		77.81	187.78	62.50	125.28	54.29
51130		22.79	187.55	61.00	126.55	54.84
51140		49.52	187.43	57.00	130.43	56.52
51150		49.52	187.42	58.00	129.42	56.08
51160		49.52	187.30	56.00	131.30	56.89
51170		51.09	187.26	53.00	134.26	58.18
51180		51.09	187.25	53.00	134.25	58.17
51190		52.40	187.23	49.00	138.23	59.90
51200		52.40	187.20	47.00	140.20	60.75
51210		24.63	187.20	47.50	139.70	60.54
51220		24.63	187.20	48.00	139.20	60.32



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
51230		24.63	187.21	49.00	138.21	59.89
52000		28.30	187.20	46.00	141.20	61.19
52010		77.81	187.21	45.00	142.21	61.62
70000		94.32	196.21	68.00	128.21	55.56
70010		133.62	195.44	67.00	128.44	55.66
70020		80.43	194.96	66.50	128.46	55.67
70030		176.85	194.47	66.00	128.47	55.67
70040		127.33	194.03	67.00	127.03	55.05
70050		141.48	193.60	65.00	128.60	55.72
70060		29.87	193.21	64.50	128.71	55.78
70070		29.87	192.84	64.00	128.84	55.83
70080		107.42	192.48	63.00	129.48	56.11
70090		0.00	192.16	60.00	132.16	57.27
70100		0.00	192.03	60.00	132.03	57.21
70110		147.24	191.68	58.50	133.18	57.71
70115		117.90	191.16	58.00	133.16	57.70
70120		131.00	191.38	57.00	134.38	58.23
70130		75.98	190.90	55.00	135.90	58.89
70140		141.48	190.45	53.00	137.45	59.56
70150		102.18	190.29	53.00	137.29	59.49
70200		154.58	190.15	53.00	137.15	59.43
74000		36.68	190.97	57.50	133.47	57.84
74005		91.70	191.14	56.50	134.64	58.34
74010		74.15	190.64	58.00	132.64	57.48
74020		36.68	190.50	58.00	132.50	57.41
74030		49.78	190.36	58.50	131.86	57.14
74040		36.68	190.31	59.50	130.81	56.68
74050		36.68	190.28	60.00	130.28	56.45
74060		21.22	190.26	57.50	132.76	57.53
74070		38.78	190.25	56.00	134.25	58.17
74080		0.00	190.25	56.50	133.75	57.96
74090		38.78	190.25	57.00	133.25	57.74
74095		0.00	190.30	58.00	132.30	57.33
74100		38.78	190.27	56.00	134.27	58.18
74110		78.60	190.30	55.00	135.30	58.63
74115		44.02	190.43	55.00	135.43	58.68
74120		44.02	190.36	54.00	136.36	59.09
74200		52.40	191.04	58.50	132.54	57.43
74210		67.07	190.65	59.00	131.65	57.05
74220		52.92	190.45	59.50	130.95	56.75
74230		67.07	190.34	60.00	130.34	56.48
74240		52.92	190.28	60.50	129.78	56.24
74250		52.92	190.27	61.00	129.27	56.02



## CITY OF EL CENTRO WATER MASTER PLAN UPDATE

RUN-7

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
74300		86.46	190.24	51.00	139.24	60.34
74310		33.54	190.17	52.00	138.17	59.87
74320		67.07	190.14	52.00	138.14	59.86
74330		31.44	190.12	53.50	136.62	59.20
74340		74.15	190.11	55.00	135.11	58.55
74350		38.78	190.11	54.50	135.61	58.76
74360		38.78	190.12	55.00	135.12	58.55
74500		31.44	190.10	50.00	140.10	60.71
74510		31.44	190.07	52.00	138.07	59.83
74520		56.59	190.07	52.00	138.07	59.83
74530		22.79	190.07	51.50	138.57	60.05
74540		25.41	190.07	51.00	139.07	60.26
74550		22.79	190.09	52.50	137.59	59.62
74570		15.72	190.08	53.00	137.08	59.40
74600		106.11	189.92	50.00	139.92	60.63
74610		89.08	189.68	51.00	138.68	60.10
76000		141.48	190.69	59.00	131.69	57.06
76010		141.48	190.68	58.00	132.68	57.50
80000		157.20	187.28	50.00	137.28	59.49
80010		133.62	187.28	48.00	139.28	60.36
80020		98.25	187.30	47.00	140.30	60.80
80030		81.22	187.35	46.50	140.85	61.03
80040		110.04	187.41	46.00	141.41	61.28
80050		91.70	187.51	48.00	139.51	60.45
80060		125.76	187.64	50.00	137.64	59.64
80070		57.64	187.79	49.00	138.79	60.14
80080		57.64	187.98	48.00	139.98	60.66
80090		0.00	188.27	48.00	140.27	60.78
80100		0.00	188.39	48.00	140.39	60.84
80200		95.37	187.18	48.00	139.18	60.31
80210		45.85	187.18	48.00	139.18	60.31
80220		75.98	187.18	47.00	140.18	60.75
80230		75.98	187.21	48.00	139.21	60.32
80300		84.89	187.27	48.50	138.77	60.13
80400		28.30	187.18	45.00	142.18	61.61
80410		28.30	187.20	44.00	143.20	62.05
80420		28.30	187.23	43.00	144.23	62.50
80430		28.30	187.30	44.50	142.80	61.88
80500		42.44	187.45	46.00	141.45	61.29
80510		42.44	187.55	46.00	141.55	61.34
80520		42.44	187.72	47.00	140.72	60.98
90000	3 RD & COM	15.46	188.70	50.00	138.70	60.10





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
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## SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES

(-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
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-----	-----
1	17575.96

NET SYSTEM INFLOW = 17575.96

NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 17575.87

\*\*\*\* CYBERNET SIMULATION COMPLETED \*\*\*\*

DATE: 10/02/1994

TIME: 14:33:21



## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 8 (Figure 5.12)

#### Ultimate Water Distribution System for Peak Hour Demand of Maximum Demand Month

<b>Total Demand</b>	32,000 gpm	19.4 mgd
<b>Pump Station Discharge Rate:</b>		
Water Treatment Plant PS	32,000 gpm	
<b>Pump Station Discharge Head:</b>		
Water Treatment Plant PS	150.0 ft	65.0 psi
<b>Hydraulic Grade Elevation:</b>		
at Water Treatment Plant PS (El. 67 ft)	217.0 ft	65.0 psi
at Remote Pump Station (El. 60 ft)	187.4 ft	55.2 psi
at 3rd & Commercial (El. 50 ft)	188.4 ft	60.0 psi







# MAXIMUM DIMENSIONS

RUN-8

Number of pipes .....	2000
Number of pumps .....	500
Number junction nodes.....	2000
Flow meters .....	500
Boundary nodes .....	200
Variable storage tanks .....	500
Pressure switches .....	500
Regulating Valves.....	500
Items for limited output .....	2000
limit for non-consecutive numbering ..	90001

Cybernet version 2.16c. SN: 1162130099-2000

## Extended Description:

## U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute  
 HEAD (HGL) ..... = feet  
 PRESSURE ..... = psig

## O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

## S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(p) = 1447  
 NUMBER OF JUNCTION NODES .....(j) = 1074  
 NUMBER OF PRIMARY LOOPS .....(l) = 373  
 NUMBER OF BOUNDARY NODES .....(f) = 1  
 NUMBER OF SUPPLY ZONES .....(z) = 1

## \*\*\*\*\* S I M U L A T I O N R E S U L T S \*\*\*\*\*

The results are obtained after 6 trials with an accuracy = 0.00236

## S I M U L A T I O N D E S C R I P T I O N

CyberNet Version 2.16c. Copyright 1991,92 Haestad Methods Inc.  
 Run Description: PEAK HOUR OF MAX MONTH FLOW = 32,000 GPM  
 Drawing: EC-ULTW1









## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1	0	20500	32253.83	0.05	0.00	0.00	3.66	1.01
5	10	5	-23409.08	2.77	0.00	0.00	10.62	16.34
10	10	15	10018.43	3.58	0.00	0.00	4.55	3.39
15	2420	15	-9778.54	0.88	0.00	0.00	4.44	3.24
17	2420	20	8433.86	2.29	0.00	0.00	3.83	2.47
20	20	30	8433.86	2.76	0.00	0.00	3.83	2.47
30	30	40	6310.63	0.84	0.00	0.00	2.86	1.44
40	40	50	6310.63	0.42	0.00	0.00	2.86	1.44
50	50	60	5674.48	2.07	0.00	0.00	4.02	3.51
60	60	70	5174.93	1.59	0.00	0.00	3.67	2.96
80	70	80	4813.08	2.31	0.00	0.00	3.41	2.59
90	80	90	4436.07	0.93	0.00	0.00	3.15	2.23
100	90	100	2995.35	0.35	0.00	0.00	2.12	1.08
205	5	210	2938.41	4.60	0.00	0.00	3.70	4.21
210	210	220	2836.95	5.40	0.00	0.00	3.58	3.95
220	220	230	1197.51	1.06	0.00	0.00	1.51	0.80
240	230	240	2465.51	2.95	0.00	0.00	3.11	3.04
250	240	250	2465.51	3.22	0.00	0.00	3.11	3.04
260	250	260	2220.90	2.25	0.00	0.00	2.80	2.51
270	260	270	1854.76	0.63	0.00	0.00	2.34	1.80
280	270	280	1738.97	0.37	0.00	0.00	2.19	1.59
290	280	300	1735.80	0.88	0.00	0.00	2.19	1.59
305	300	305	1460.71	0.72	0.00	0.00	1.84	1.15
310	305	310	1314.94	0.29	0.00	0.00	1.66	0.95
315	310	315	1225.62	0.27	0.00	0.00	1.55	0.83
320	315	320	-1177.64	0.29	0.00	0.00	1.48	0.77
325	320	325	-1098.50	0.65	0.00	0.00	1.38	0.68
330	325	330	-1240.42	0.51	0.00	0.00	1.56	0.85
335	330	335	-1423.21	0.18	0.00	0.00	1.79	1.10
340	335	90	-1431.96	0.58	0.00	0.00	1.81	1.11
400	315	400	2206.43	0.83	0.00	0.00	2.78	2.48
405	400	405	900.01	0.73	0.00	0.00	2.55	3.39
410	405	410	758.79	0.69	0.00	0.00	2.15	2.47
415	410	415	652.72	0.38	0.00	0.00	2.15	2.47
420	415	420	737.58	0.86	0.00	0.00	1.85	1.87
425	420	425	644.86	0.61	0.00	0.00	2.09	2.35
430	425	430	645.40	0.37	0.00	0.00	1.83	1.83
435	430	435	579.04	0.28	0.00	0.00	1.83	1.83
440	435	440	565.67	0.52	0.00	0.00	1.64	1.50
445	440	445	517.03	0.27	0.00	0.00	1.60	1.44
450	445	450	547.66	0.22	0.00	0.00	1.47	1.22
455	450	455	483.90	0.41	0.00	0.00	1.55	1.35
457	455	457	-200.78	0.07	0.00	0.00	1.37	1.07
							0.57	0.21



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
459	457	459	-215.35	0.15	0.00	0.00	0.61	0.24
460	460	459	241.27	0.12	0.00	0.00	0.68	0.30
465	460	465	-77.82	0.05	0.00	0.00	0.22	0.04
470	465	470	-599.89	0.31	0.00	0.00	1.70	1.60
475	470	475	-499.56	0.22	0.00	0.00	1.42	1.14
480	475	480	-575.83	0.27	0.00	0.00	1.63	1.48
485	480	485	-403.93	0.15	0.00	0.00	1.15	0.77
490	485	490	-801.95	1.02	0.00	0.00	2.27	2.74
495	490	495	-880.31	1.21	0.00	0.00	2.50	3.26
500	495	500	-911.80	1.20	0.00	0.00	2.59	3.47
505	500	505	-732.95	0.81	0.00	0.00	2.08	2.32
510	505	510	-828.94	1.07	0.00	0.00	2.35	2.91
515	510	100	-982.73	1.38	0.00	0.00	2.79	3.99
600	455	600	658.24	0.57	0.00	0.00	1.87	1.90
605	600	605	663.24	0.35	0.00	0.00	1.88	1.93
610	605	610	638.15	0.90	0.00	0.00	1.81	1.79
615	610	615	563.43	0.48	0.00	0.00	1.60	1.42
620	615	620	548.64	0.46	0.00	0.00	1.56	1.36
625	620	625	305.71	0.15	0.00	0.00	0.87	0.46
630	625	630	293.50	0.14	0.00	0.00	0.83	0.43
635	630	635	226.70	0.09	0.00	0.00	0.64	0.26
640	635	640	171.07	0.08	0.00	0.00	0.49	0.16
645	640	645	143.49	0.03	0.00	0.00	0.41	0.11
650	645	650	61.12	0.01	0.00	0.00	0.17	0.02
655	650	655	61.12	0.02	0.00	0.00	0.17	0.02
660	655	660	50.81	0.05	0.00	0.00	0.32	0.12
700	465	700	543.15	0.52	0.00	0.00	1.54	1.33
705	700	705	689.01	0.75	0.00	0.00	1.95	2.07
710	705	710	781.52	1.13	0.00	0.00	2.22	2.61
715	710	715	582.51	0.23	0.00	0.00	1.65	1.52
720	715	720	490.56	0.38	0.00	0.00	1.39	1.10
725	720	725	249.75	0.25	0.00	0.00	1.02	0.77
730	725	730	235.67	0.34	0.00	0.00	0.96	0.69
735	730	735	177.67	0.13	0.00	0.00	0.73	0.41
740	735	740	146.13	0.09	0.00	0.00	0.60	0.28
745	740	745	123.92	0.07	0.00	0.00	0.51	0.21
750	745	750	122.37	0.04	0.00	0.00	0.50	0.20
800	400	800	1298.37	0.67	0.00	0.00	1.64	0.93
810	800	810	1284.76	0.59	0.00	0.00	1.62	0.91
820	810	820	954.59	0.35	0.00	0.00	1.20	0.53
830	820	830	1086.91	0.20	0.00	0.00	1.37	0.67
840	830	840	1296.03	0.36	0.00	0.00	1.63	0.93
845	840	860	-123.07	0.01	0.00	0.00	0.35	0.09





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
850	840	850	1410.68	0.52	0.00	0.00	1.78	1.08
860	850	5000	1410.68	0.70	0.00	0.00	1.78	1.08
875	860	870	-492.42	0.67	0.00	0.00	1.40	1.11
880	870	880	-609.66	0.50	0.00	0.00	1.73	1.65
890	880	890	-731.49	0.69	0.00	0.00	2.07	2.31
895	890	3025	-884.92	1.06	0.00	0.00	2.51	3.29
900	420	900	77.68	0.02	0.00	0.00	0.22	0.04
910	900	910	62.63	0.02	0.00	0.00	0.18	0.02
920	910	920	340.81	0.38	0.00	0.00	0.97	0.56
930	920	5000	304.22	0.30	0.00	0.00	0.86	0.46
935	5000	935	258.77	0.02	0.00	0.00	0.73	0.34
940	935	940	300.33	0.19	0.00	0.00	0.85	0.44
950	940	950	294.95	0.20	0.00	0.00	0.84	0.43
960	950	960	427.53	0.25	0.00	0.00	1.21	0.85
970	960	970	239.59	0.20	0.00	0.00	0.68	0.29
980	970	980	326.83	0.13	0.00	0.00	0.93	0.52
1000	260	1000	-84.35	0.16	0.00	0.00	0.54	0.30
1010	1000	1010	-87.25	0.31	0.00	0.00	0.56	0.32
1015	1010	1015	-392.70	1.80	0.00	0.00	2.51	5.26
1020	1015	50	-386.73	3.66	0.00	0.00	2.47	5.11
1030	260	1030	-117.17	0.48	0.00	0.00	0.75	0.56
1040	1030	1040	84.98	0.06	0.00	0.00	0.54	0.31
1050	1040	1050	25.22	0.03	0.00	0.00	0.16	0.03
1060	1050	1060	-26.05	0.04	0.00	0.00	0.30	0.14
1070	1060	1070	-67.86	0.51	0.00	0.00	0.77	0.83
1080	1070	1080	-187.34	1.46	0.00	0.00	2.13	5.42
1090	1080	50	-241.97	3.52	0.00	0.00	2.75	8.71
1100	1015	1090	-20.54	0.05	0.00	0.00	0.23	0.09
1105	1090	1080	-35.11	0.09	0.00	0.00	0.40	0.24
1110	1000	1100	-26.87	0.12	0.00	0.00	0.30	0.15
1115	1100	1110	-36.19	0.12	0.00	0.00	0.41	0.26
1120	1010	1110	70.82	0.07	0.00	0.00	0.45	0.22
1125	1110	1050	21.16	0.01	0.00	0.00	0.14	0.02
1150	1040	1150	42.84	0.09	0.00	0.00	0.49	0.35
1155	1150	1155	0.57	0.00	0.00	0.00	0.01	0.00
1160	1155	1160	-12.55	0.02	0.00	0.00	0.14	0.04
1165	1050	1160	56.09	0.04	0.00	0.00	0.36	0.14
1170	1150	1170	24.71	0.03	0.00	0.00	0.28	0.13
1175	1170	1175	5.53	0.00	0.00	0.00	0.06	0.01
1180	1175	1180	-9.28	0.01	0.00	0.00	0.11	0.02
1185	1180	1185	-24.09	0.04	0.00	0.00	0.27	0.12
1190	1160	1185	26.57	0.01	0.00	0.00	0.17	0.04
1195	1185	1205	-16.13	0.00	0.00	0.00	0.10	0.01



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1200	1060	1200	21.47	0.02	0.00	0.00	0.24	0.10
1205	1200	1205	31.83	0.07	0.00	0.00	0.36	0.20
1210	1070	1210	98.08	0.44	0.00	0.00	1.11	1.64
1215	1210	1200	27.43	0.09	0.00	0.00	0.31	0.15
1220	1210	1220	52.47	0.15	0.00	0.00	0.60	0.51
1225	1220	1225	26.65	0.01	0.00	0.00	0.17	0.04
1230	1205	1225	-5.79	0.00	0.00	0.00	0.04	0.00
1240	1170	1240	9.86	0.00	0.00	0.00	0.11	0.02
1245	1175	1245	9.86	0.00	0.00	0.00	0.11	0.02
1250	1180	1250	9.86	0.00	0.00	0.00	0.11	0.02
1255	1185	1255	9.86	0.00	0.00	0.00	0.11	0.02
1260	1205	1260	8.41	0.00	0.00	0.00	0.10	0.02
1265	1225	1265	11.64	0.01	0.00	0.00	0.13	0.03
1270	1220	1270	11.64	0.01	0.00	0.00	0.13	0.03
1275	1030	1275	-206.97	0.73	0.00	0.00	1.32	1.61
1280	1275	250	-244.61	1.04	0.00	0.00	1.56	2.19
1300	270	1300	50.95	0.28	0.00	0.00	0.58	0.49
1305	1300	1305	-70.63	0.79	0.00	0.00	0.80	0.89
1310	1300	1310	99.22	0.09	0.00	0.00	0.63	0.41
1315	1310	1315	102.38	0.07	0.00	0.00	0.65	0.44
1320	1315	1320	-18.45	0.01	0.00	0.00	0.12	0.02
1325	1320	1305	-101.99	0.94	0.00	0.00	1.16	1.76
1327	300	1325	-186.21	0.07	0.00	0.00	0.53	0.18
1330	1315	1330	102.56	0.69	0.00	0.00	1.16	1.78
1335	1320	1335	57.15	0.23	0.00	0.00	0.65	0.60
1340	1325	1330	-214.61	0.05	0.00	0.00	0.61	0.24
1345	1330	1335	-127.38	0.48	0.00	0.00	0.81	0.65
1350	1335	1350	-200.22	0.91	0.00	0.00	1.28	1.51
1355	1350	70	-352.72	2.65	0.00	0.00	2.25	4.31
1360	60	1360	490.42	10.32	0.00	0.00	5.56	32.22
1365	1360	1365	163.47	2.29	0.00	0.00	1.85	4.21
1370	1360	1370	163.47	1.14	0.00	0.00	1.85	4.21
1375	1010	1305	203.10	0.59	0.00	0.00	1.30	1.55
1380	280	1310	3.17	0.00	0.00	0.00	0.01	0.00
1400	320	1403	-103.65	0.55	0.00	0.00	1.18	1.81
1404	1400	1403	76.24	0.34	0.00	0.00	0.87	1.03
1405	1400	1405	-50.30	0.15	0.00	0.00	0.57	0.47
1410	1405	1325	-19.26	0.02	0.00	0.00	0.22	0.08
1420	1400	1420	-43.74	0.19	0.00	0.00	0.50	0.37
1425	1420	1425	-39.14	0.13	0.00	0.00	0.44	0.30
1430	1425	1430	-41.74	0.20	0.00	0.00	0.47	0.34
1435	1405	1435	-49.55	0.44	0.00	0.00	0.56	0.46
1440	1435	1440	-46.95	0.25	0.00	0.00	0.53	0.42



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1445	1420	1445	-14.21	0.02	0.00	0.00	0.16	0.05
1450	1445	1450	-50.50	0.29	0.00	0.00	0.57	0.48
1455	1403	1455	-41.11	0.19	0.00	0.00	0.47	0.33
1460	1455	1460	-47.56	0.16	0.00	0.00	0.54	0.43
1465	1460	1465	-48.69	0.27	0.00	0.00	0.55	0.45
1470	1455	1470	-3.17	0.01	0.00	0.00	0.08	0.02
1475	1470	1475	-59.35	0.38	0.00	0.00	0.67	0.64
1480	325	1470	-117.91	0.10	0.00	0.00	0.75	0.57
1485	1470	1460	-70.87	0.15	0.00	0.00	0.80	0.90
1490	1460	1445	-83.68	0.21	0.00	0.00	0.95	1.22
1495	1445	1425	-56.53	0.10	0.00	0.00	0.64	0.59
1500	1425	1435	-69.31	0.27	0.00	0.00	0.79	0.86
1505	1435	1335	-99.80	0.11	0.00	0.00	0.64	0.42
1510	330	1475	27.40	0.03	0.00	0.00	0.31	0.15
1515	1475	1465	-31.95	0.03	0.00	0.00	0.36	0.20
1520	1465	1450	-87.37	0.23	0.00	0.00	0.99	1.32
1525	1450	1430	-22.75	0.02	0.00	0.00	0.26	0.11
1530	1430	1440	-74.58	0.31	0.00	0.00	0.85	0.98
1535	1350	1440	135.00	0.77	0.00	0.00	1.53	2.95
1540	1450	1540	-121.86	0.23	0.00	0.00	0.78	0.60
1545	1540	80	-156.23	1.22	0.00	0.00	1.77	3.87
1600	400	1600	-7.05	0.00	0.00	0.00	0.08	0.01
1605	1600	1605	-15.85	0.04	0.00	0.00	0.18	0.06
1610	415	1610	-198.36	1.37	0.00	0.00	1.27	1.48
1615	1610	1615	-95.29	0.27	0.00	0.00	1.08	1.55
1620	1615	1605	-56.60	0.21	0.00	0.00	0.64	0.59
1622	1610	1620	-112.25	0.21	0.00	0.00	0.72	0.52
1624	1620	1625	-181.95	0.24	0.00	0.00	1.16	1.27
1625	1615	1625	-47.35	0.17	0.00	0.00	0.54	0.42
1627	1625	1630	-213.40	0.59	0.00	0.00	1.36	1.70
1630	1605	1630	-89.90	0.55	0.00	0.00	1.02	1.39
1635	1630	1635	-266.30	0.86	0.00	0.00	1.70	2.56
1637	1635	325	-225.93	0.30	0.00	0.00	1.44	1.89
1640	1620	1640	-73.50	0.14	0.00	0.00	0.47	0.24
1645	1625	1645	-38.02	0.17	0.00	0.00	0.43	0.28
1650	1630	1650	-59.12	0.38	0.00	0.00	0.67	0.64
1655	1635	1655	-55.89	0.35	0.00	0.00	0.63	0.58
1660	1640	505	-49.54	0.32	0.00	0.00	0.56	0.46
1665	1647	510	-64.53	0.52	0.00	0.00	0.73	0.75
1670	1653	100	-93.44	1.01	0.00	0.00	1.06	1.49
1675	1640	1645	-90.77	0.27	0.00	0.00	1.03	1.42
1680	1645	1647	-142.25	0.60	0.00	0.00	1.61	3.26
1685	1647	1650	-84.64	0.20	0.00	0.00	0.96	1.24





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1690	1650	1653	-157.22	0.69	0.00	0.00	1.78	3.92
1695	1653	1655	-70.56	0.14	0.00	0.00	0.80	0.89
1697	1655	330	-133.19	0.47	0.00	0.00	1.51	2.88
1700	425	1700	-78.75	1.46	0.00	0.00	0.89	1.09
1702	1620	1702	143.20	1.15	0.00	0.00	1.62	3.30
1705	1700	495	-25.41	0.04	0.00	0.00	0.16	0.03
1710	1700	1702	-83.53	0.44	0.00	0.00	0.95	1.21
1715	1640	1705	59.60	0.23	0.00	0.00	0.68	0.65
1720	1705	500	45.13	0.26	0.00	0.00	0.51	0.39
1750	435	1750	-0.15	0.00	0.00	0.00	0.00	0.00
1755	1750	1755	-35.73	0.32	0.00	0.00	0.41	0.25
1760	1755	490	-71.69	0.62	0.00	0.00	0.81	0.92
1770	440	1770	35.65	0.04	0.00	0.00	0.23	0.06
1775	1770	1775	-14.78	0.01	0.00	0.00	0.09	0.01
1780	1775	1780	-174.52	0.15	0.00	0.00	0.50	0.16
1785	1780	485	-433.78	0.33	0.00	0.00	1.23	0.88
1790	445	1790	-34.47	0.16	0.00	0.00	0.39	0.24
1795	1790	1770	-38.32	0.06	0.00	0.00	0.43	0.29
1800	460	1800	-362.37	0.24	0.00	0.00	1.03	0.63
1805	1800	1805	-269.95	0.33	0.00	0.00	0.77	0.36
1810	1805	475	-73.43	0.01	0.00	0.00	0.21	0.03
1815	1805	1780	-241.81	0.11	0.00	0.00	0.69	0.30
1820	1800	1775	-138.58	0.29	0.00	0.00	0.88	0.76
1880	605	1880	1.30	0.00	0.00	0.00	0.01	0.00
1900	610	1900	-1.20	0.00	0.00	0.00	0.01	0.00
1902	1900	1945	-29.09	0.12	0.00	0.00	0.33	0.17
1905	615	1905	-0.26	0.00	0.00	0.00	0.00	0.00
1907	1905	1950	-13.39	0.03	0.00	0.00	0.15	0.04
1910	620	1910	-8.75	0.01	0.00	0.00	0.10	0.02
1912	1910	1955	-23.89	0.08	0.00	0.00	0.27	0.12
1915	625	1915	0.96	0.00	0.00	0.00	0.01	0.00
1917	1915	1960	-10.57	0.02	0.00	0.00	0.12	0.03
1920	635	1920	52.26	0.07	0.00	0.00	0.33	0.13
1925	1920	1925	-8.04	0.00	0.00	0.00	0.05	0.00
1927	1925	1965	-19.34	0.01	0.00	0.00	0.12	0.02
1930	1920	1930	39.00	0.03	0.00	0.00	0.25	0.07
1932	1930	1970	29.00	0.02	0.00	0.00	0.19	0.04
1935	460	1935	198.93	0.56	0.00	0.00	1.27	1.49
1937	1935	1975	-94.77	0.03	0.00	0.00	0.27	0.05
1940	1935	1940	270.96	0.95	0.00	0.00	1.73	2.65
1942	1940	1980	-15.72	0.03	0.00	0.00	0.18	0.06
1945	1940	1945	249.89	0.54	0.00	0.00	1.59	2.28
1950	1945	1950	209.74	0.57	0.00	0.00	1.34	1.65





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
1952	1950	1990	-1.28	0.00	0.00	0.00	0.01	0.00
1955	1950	1955	173.84	0.40	0.00	0.00	1.11	1.16
1957	1955	1995	-10.44	0.02	0.00	0.00	0.12	0.03
1960	1955	1960	130.81	0.23	0.00	0.00	0.83	0.69
1962	1960	2000	-31.85	0.03	0.00	0.00	0.20	0.05
1965	1960	1965	127.33	0.32	0.00	0.00	0.81	0.65
1967	1965	2005	9.51	0.01	0.00	0.00	0.11	0.02
1970	1965	1970	62.76	0.06	0.00	0.00	0.40	0.18
1972	1970	655	38.97	0.02	0.00	0.00	0.25	0.07
1973	1970	2010	23.51	0.07	0.00	0.00	0.27	0.12
1975	1975	700	-111.31	0.05	0.00	0.00	0.32	0.07
1980	1980	705	-42.74	0.24	0.00	0.00	0.48	0.35
1982	1982	1985	-4.23	0.00	0.00	0.00	0.05	0.00
1985	1985	710	-102.54	0.04	0.00	0.00	0.29	0.06
1987	1985	1990	88.21	0.21	0.00	0.00	1.00	1.34
1990	1990	715	-13.08	0.03	0.00	0.00	0.15	0.04
1992	1990	1995	80.34	0.38	0.00	0.00	0.91	1.13
1995	1995	720	-14.16	0.03	0.00	0.00	0.16	0.05
1997	1995	2000	59.78	0.21	0.00	0.00	0.68	0.65
2000	2000	725	15.33	0.01	0.00	0.00	0.10	0.01
2005	2005	730	-7.94	0.01	0.00	0.00	0.09	0.02
2010	2010	735	6.06	0.01	0.00	0.00	0.07	0.01
2012	655	2015	30.01	0.12	0.00	0.00	0.34	0.18
2015	2015	740	12.55	0.03	0.00	0.00	0.14	0.04
2017	660	2020	33.35	0.13	0.00	0.00	0.38	0.22
2020	2020	745	15.90	0.04	0.00	0.00	0.18	0.06
2200	230	2200	1713.08	1.23	0.00	0.00	2.16	1.55
2210	2200	2210	1713.08	1.40	0.00	0.00	2.16	1.55
2220	2210	2220	1713.08	0.70	0.00	0.00	2.16	1.55
2230	2220	2230	1652.02	0.80	0.00	0.00	2.08	1.45
2300	2220	2300	61.06	0.05	0.00	0.00	0.39	0.17
2310	2300	2310	6.49	0.00	0.00	0.00	0.04	0.00
2320	2300	2320	2.88	0.00	0.00	0.00	0.02	0.00
2330	2300	2330	42.31	0.03	0.00	0.00	0.27	0.08
2340	2330	2340	6.49	0.00	0.00	0.00	0.04	0.00
2350	2330	2350	2.88	0.00	0.00	0.00	0.02	0.00
2360	2330	2360	23.56	0.01	0.00	0.00	0.15	0.03
2370	2360	2370	6.49	0.00	0.00	0.00	0.04	0.00
2380	2360	2380	2.88	0.00	0.00	0.00	0.02	0.00
2400	9470	2400	-921.85	0.41	0.00	0.00	1.16	0.49
2410	2400	2410	-921.85	0.35	0.00	0.00	1.16	0.49
2420	2410	2420	-921.85	0.31	0.00	0.00	1.16	0.49
2430	2420	2430	422.84	0.03	0.00	0.00	0.53	0.12



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
2440	2430	2440	-182.20	0.35	0.00	0.00	1.16	1.27
2445	2440	15	-239.89	0.56	0.00	0.00	1.53	2.11
2450	2440	2450	43.27	0.02	0.00	0.00	0.28	0.09
2460	2450	2460	14.42	0.00	0.00	0.00	0.09	0.01
2470	2450	2470	14.42	0.00	0.00	0.00	0.09	0.01
3000	300	3000	475.29	0.49	0.00	0.00	1.35	1.04
3005	3000	3005	360.90	0.17	0.00	0.00	1.02	0.62
3010	3005	3010	333.31	0.31	0.00	0.00	0.95	0.54
3015	3010	3015	261.40	0.20	0.00	0.00	0.74	0.34
3017	3540	3010	-92.95	0.48	0.00	0.00	1.05	1.48
3020	3015	3020	250.01	0.12	0.00	0.00	0.71	0.32
3025	3020	3025	173.42	0.07	0.00	0.00	0.49	0.16
3030	3025	3030	-1249.44	1.33	0.00	0.00	3.54	6.23
3035	3030	3035	-1266.79	0.62	0.00	0.00	1.60	0.89
3040	3035	3040	-1266.79	0.52	0.00	0.00	1.60	0.89
3045	3040	3045	814.38	1.21	0.00	0.00	2.31	2.82
3050	3045	3050	566.87	0.66	0.00	0.00	1.61	1.44
3055	3050	3055	566.87	0.49	0.00	0.00	1.61	1.44
3060	3055	3060	552.56	0.41	0.00	0.00	1.57	1.37
3065	3025	3065	533.13	0.64	0.00	0.00	1.51	1.29
3070	3065	3070	525.92	0.51	0.00	0.00	1.49	1.25
3075	3070	3075	473.24	0.73	0.00	0.00	1.34	1.03
3080	3075	3080	463.62	0.26	0.00	0.00	1.32	0.99
3100	300	3100	-43.07	0.14	0.00	0.00	0.49	0.36
3105	3100	3105	0.77	0.00	0.00	0.00	0.01	0.00
3110	3100	3110	-43.84	0.19	0.00	0.00	0.50	0.37
3115	3110	3115	-47.69	0.17	0.00	0.00	0.54	0.43
3120	270	3115	249.24	0.79	0.00	0.00	1.59	2.27
3122	270	260	-198.82	0.70	0.00	0.00	1.27	1.49
3125	260	3130	269.61	1.46	0.00	0.00	1.72	2.62
3130	3115	3270	195.78	0.59	0.00	0.00	1.25	1.45
3140	3130	3140	103.05	0.24	0.00	0.00	0.66	0.44
3145	3140	3145	89.10	0.10	0.00	0.00	0.57	0.34
3147	3145	3147	14.42	0.00	0.00	0.00	0.09	0.01
3150	3130	3150	141.32	0.27	0.00	0.00	0.90	0.79
3152	3245	3150	-65.23	0.29	0.00	0.00	0.74	0.77
3155	3150	3145	50.84	0.07	0.00	0.00	0.32	0.12
3200	3200	3205	20.58	0.04	0.00	0.00	0.23	0.09
3205	3205	3210	0.00	0.00	0.00	0.00	0.00	0.00
3207	3230	3205	13.91	0.01	0.00	0.00	0.16	0.04
3210	3205	3215	8.92	0.02	0.00	0.00	0.10	0.02
3215	3215	3220	5.72	0.00	0.00	0.00	0.06	0.01
3217	3235	3215	17.72	0.01	0.00	0.00	0.11	0.02



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3220	3145	3225	111.58	0.19	0.00	0.00	0.71	0.51
3225	3225	3230	62.82	0.09	0.00	0.00	0.40	0.18
3227	3225	3200	30.58	0.06	0.00	0.00	0.35	0.19
3230	3230	3235	11.19	0.02	0.00	0.00	0.13	0.03
3233	3252	3230	-9.92	0.01	0.00	0.00	0.11	0.02
3235	3235	3240	5.72	0.00	0.00	0.00	0.06	0.01
3237	3257	3235	33.16	0.02	0.00	0.00	0.21	0.05
3245	3250	3245	-24.78	0.06	0.00	0.00	0.28	0.13
3247	3245	3247	25.12	0.04	0.00	0.00	0.28	0.13
3249	3247	3252	15.60	0.03	0.00	0.00	0.18	0.05
3250	3250	3255	-34.54	0.06	0.00	0.00	0.22	0.06
3251	3280	3250	-31.73	0.07	0.00	0.00	0.36	0.20
3252	3252	3257	0.98	0.00	0.00	0.00	0.01	0.00
3254	3250	3252	0.17	0.00	0.00	0.00	0.00	0.00
3255	3255	3040	-282.23	1.27	0.00	0.00	1.80	2.85
3257	3255	3257	58.81	0.06	0.00	0.00	0.38	0.16
3259	3257	3259	5.72	0.00	0.00	0.00	0.04	0.00
3260	3005	3260	16.63	0.02	0.00	0.00	0.19	0.06
3262	3260	3262	4.23	0.00	0.00	0.00	0.05	0.00
3264	3260	3295	41.54	0.19	0.00	0.00	0.47	0.33
3265	3260	3265	-44.91	0.11	0.00	0.00	0.51	0.38
3267	3265	3267	4.23	0.00	0.00	0.00	0.05	0.00
3269	3265	3290	28.83	0.10	0.00	0.00	0.33	0.17
3270	3265	3270	-93.74	0.43	0.00	0.00	1.06	1.50
3273	3275	3280	20.75	0.06	0.00	0.00	0.24	0.09
3274	3270	3285	45.91	0.24	0.00	0.00	0.52	0.40
3275	3270	3275	40.75	0.09	0.00	0.00	0.46	0.32
3277	3275	3277	4.23	0.00	0.00	0.00	0.05	0.00
3280	3280	3285	40.94	0.09	0.00	0.00	0.46	0.32
3285	3285	3290	75.31	0.29	0.00	0.00	0.85	1.00
3290	3290	3295	63.56	0.20	0.00	0.00	0.72	0.73
3295	3295	3010	39.56	0.10	0.00	0.00	0.45	0.30
3297	3295	3300	34.29	0.23	0.00	0.00	0.39	0.23
3300	3020	3300	-123.40	0.19	0.00	0.00	0.79	0.62
3305	3300	3305	-108.83	0.13	0.00	0.00	0.69	0.49
3310	3305	3310	6.25	0.00	0.00	0.00	0.04	0.00
3315	3305	3315	-127.91	0.21	0.00	0.00	0.82	0.66
3320	3315	3320	6.25	0.00	0.00	0.00	0.04	0.00
3325	3315	3325	-147.00	0.25	0.00	0.00	0.94	0.85
3330	3325	3330	6.25	0.00	0.00	0.00	0.04	0.00
3335	3255	3325	166.09	0.36	0.00	0.00	1.06	1.07
3400	3020	3400	183.85	0.41	0.00	0.00	1.17	1.29
3405	3400	3405	4.81	0.00	0.00	0.00	0.05	0.01





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3410	3400	3410	170.63	0.34	0.00	0.00	1.09	1.12
3415	3410	3415	4.81	0.00	0.00	0.00	0.05	0.01
3420	3410	3420	249.98	0.73	0.00	0.00	1.60	2.28
3425	3420	3425	4.81	0.00	0.00	0.00	0.05	0.01
3430	3420	3430	236.76	0.61	0.00	0.00	1.51	2.06
3435	3430	3435	4.81	0.00	0.00	0.00	0.05	0.01
3437	3430	830	223.54	0.55	0.00	0.00	1.43	1.85
3440	820	3440	-146.75	0.25	0.00	0.00	0.94	0.85
3445	810	3450	-106.28	0.58	0.00	0.00	1.21	1.90
3450	3440	3450	-161.17	0.67	0.00	0.00	1.03	1.01
3460	3460	3450	164.00	0.75	0.00	0.00	1.05	1.04
3467	3460	315	-177.60	0.76	0.00	0.00	1.13	1.21
3470	310	3470	71.62	0.57	0.00	0.00	0.81	0.91
3475	3450	3480	-128.50	0.79	0.00	0.00	1.46	2.70
3480	3470	3480	58.02	0.43	0.00	0.00	0.66	0.62
3490	3480	3490	-14.25	0.03	0.00	0.00	0.16	0.05
3500	3490	3500	-28.10	0.05	0.00	0.00	0.32	0.16
3505	3500	3410	96.18	0.11	0.00	0.00	0.61	0.39
3510	3500	3510	-99.00	0.28	0.00	0.00	0.63	0.41
3515	3480	3510	-81.29	0.36	0.00	0.00	0.92	1.15
3520	3510	3520	-134.90	0.62	0.00	0.00	0.86	0.73
3525	3520	305	-128.75	0.31	0.00	0.00	0.82	0.67
3530	3520	3530	-27.21	0.01	0.00	0.00	0.17	0.04
3535	3530	3000	-98.37	0.53	0.00	0.00	1.12	1.64
3540	3530	3540	51.45	0.43	0.00	0.00	0.58	0.50
3545	3510	3540	-61.15	0.21	0.00	0.00	0.69	0.68
3550	3540	3550	55.96	0.39	0.00	0.00	0.63	0.58
3555	3550	3500	41.54	0.10	0.00	0.00	0.47	0.33
3600	405	3600	126.18	0.42	0.00	0.00	0.81	0.64
3603	810	3605	411.41	0.22	0.00	0.00	1.17	0.80
3605	3600	3605	111.13	0.34	0.00	0.00	0.71	0.51
3610	410	3610	91.02	0.22	0.00	0.00	0.58	0.35
3613	3605	3615	503.30	0.33	0.00	0.00	1.43	1.16
3615	3610	3615	75.97	0.17	0.00	0.00	0.48	0.25
3620	415	3620	89.27	0.25	0.00	0.00	0.57	0.34
3623	3615	3625	564.22	0.40	0.00	0.00	1.60	1.43
3625	3620	3625	74.22	0.16	0.00	0.00	0.47	0.24
3627	3625	910	623.39	0.49	0.00	0.00	1.77	1.72
3630	425	3630	48.83	0.30	0.00	0.00	0.55	0.45
3633	910	3635	295.77	1.02	0.00	0.00	1.89	3.11
3635	3630	3635	33.79	0.15	0.00	0.00	0.38	0.23
3640	430	3640	66.35	0.13	0.00	0.00	0.42	0.20
3642	3635	3645	150.41	0.17	0.00	0.00	0.96	0.89



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
3643	3640	3643	66.35	0.09	0.00	0.00	0.42	0.20
3645	3643	3645	66.35	0.04	0.00	0.00	0.42	0.20
3650	440	3650	5.11	0.00	0.00	0.00	0.06	0.01
3655	3650	440	-1.09	0.00	0.00	0.00	0.01	0.00
3660	3643	3660	0.00	0.00	0.00	0.00	0.00	0.00
3665	3645	3665	211.28	0.60	0.00	0.00	1.35	1.67
3667	3697	3665	-40.28	0.03	0.00	0.00	0.26	0.08
3670	3660	3670	0.00	0.00	0.00	0.00	0.00	0.00
3675	3665	3675	136.48	0.20	0.00	0.00	0.87	0.74
3677	3675	4510	136.48	0.24	0.00	0.00	0.87	0.74
3680	3670	3680	0.00	0.00	0.00	0.00	0.00	0.00
3685	3635	3685	142.41	0.54	0.00	0.00	0.91	0.80
3690	3670	3690	0.00	0.00	0.00	0.00	0.00	0.00
3695	3685	3695	131.78	0.27	0.00	0.00	0.84	0.70
3697	3695	3697	-13.30	0.00	0.00	0.00	0.08	0.01
3698	3695	3698	117.83	0.21	0.00	0.00	0.75	0.57
3699	3698	4520	117.83	0.23	0.00	0.00	0.75	0.57
4000	3045	4000	239.34	1.03	0.00	0.00	1.53	2.10
4010	4000	4010	155.31	0.56	0.00	0.00	0.99	0.94
4020	4010	4020	136.90	0.38	0.00	0.00	0.87	0.75
4025	4020	3070	179.75	0.46	0.00	0.00	1.15	1.24
4030	4020	4030	-61.26	0.09	0.00	0.00	0.39	0.17
4040	4030	4040	-83.38	0.13	0.00	0.00	0.53	0.30
4045	4040	3060	-96.07	0.18	0.00	0.00	0.61	0.39
4050	4000	4050	62.58	0.06	0.00	0.00	0.40	0.18
4060	4050	4060	53.40	0.03	0.00	0.00	0.34	0.13
4070	4060	4070	39.12	0.03	0.00	0.00	0.25	0.07
4080	4070	4080	12.62	0.00	0.00	0.00	0.08	0.01
4090	4080	3055	3.01	0.00	0.00	0.00	0.02	0.00
4100	4100	4105	-119.91	0.12	0.00	0.00	0.77	0.58
4103	3070	4105	213.19	0.55	0.00	0.00	1.36	1.70
4105	4105	4110	-127.76	0.27	0.00	0.00	0.82	0.66
4110	4110	890	-140.60	0.37	0.00	0.00	0.90	0.78
4115	4115	4120	-79.62	0.05	0.00	0.00	0.51	0.27
4120	4120	4125	-96.15	0.16	0.00	0.00	0.61	0.39
4123	4105	4120	198.59	0.44	0.00	0.00	1.27	1.49
4125	4125	880	-108.99	0.24	0.00	0.00	0.70	0.49
4130	4130	4135	-74.33	0.04	0.00	0.00	0.47	0.24
4133	4120	4135	192.66	0.43	0.00	0.00	1.23	1.41
4135	4135	4140	-75.89	0.08	0.00	0.00	0.48	0.25
4137	4135	4225	176.44	0.67	0.00	0.00	1.13	1.20
4140	4140	4145	-94.16	0.13	0.00	0.00	0.60	0.37
4145	4145	870	-112.43	0.11	0.00	0.00	0.72	0.52



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4150	4140	4150	6.73	0.00	0.00	0.00	0.04	0.00
4155	4145	4155	6.73	0.00	0.00	0.00	0.04	0.00
4200	860	4200	257.59	0.61	0.00	0.00	1.64	2.41
4205	4200	4205	190.22	0.41	0.00	0.00	1.21	1.37
4210	4205	4210	132.14	0.20	0.00	0.00	0.84	0.70
4215	4210	935	46.94	0.03	0.00	0.00	0.30	0.10
4220	860	4220	98.06	0.21	0.00	0.00	0.63	0.40
4225	4220	4225	84.36	0.12	0.00	0.00	0.54	0.30
4227	4225	4235	190.49	0.40	0.00	0.00	1.22	1.38
4230	4200	4230	56.65	0.07	0.00	0.00	0.36	0.15
4235	4230	4235	45.93	0.04	0.00	0.00	0.29	0.10
4237	4235	4245	183.17	0.38	0.00	0.00	1.17	1.28
4240	4205	4240	47.35	0.05	0.00	0.00	0.30	0.10
4245	4240	4245	36.63	0.02	0.00	0.00	0.23	0.06
4247	4245	4255	164.66	0.31	0.00	0.00	1.05	1.05
4250	4210	4250	74.48	0.12	0.00	0.00	0.48	0.24
4255	4250	4255	63.76	0.07	0.00	0.00	0.41	0.18
4257	4255	950	144.03	0.22	0.00	0.00	0.92	0.82
4260	4225	4260	34.73	0.03	0.00	0.00	0.22	0.06
4265	4260	4265	21.02	0.01	0.00	0.00	0.13	0.02
4266	4265	4266	-190.94	0.24	0.00	0.00	1.22	1.38
4267	4265	4275	188.21	0.39	0.00	0.00	1.20	1.35
4268	4265	4267	4.76	0.00	0.00	0.00	0.03	0.00
4270	4235	4270	30.36	0.02	0.00	0.00	0.19	0.05
4275	4270	4275	18.19	0.01	0.00	0.00	0.12	0.02
4277	4275	4285	183.67	0.38	0.00	0.00	1.17	1.29
4278	4275	4278	5.29	0.00	0.00	0.00	0.03	0.00
4280	4245	4280	32.25	0.03	0.00	0.00	0.21	0.05
4285	4280	4285	20.09	0.01	0.00	0.00	0.13	0.02
4287	4285	4295	191.59	0.42	0.00	0.00	1.22	1.39
4290	4255	4290	61.55	0.09	0.00	0.00	0.39	0.17
4295	4290	4295	49.43	0.05	0.00	0.00	0.32	0.11
4297	4295	970	228.91	0.53	0.00	0.00	1.46	1.94
4300	960	4300	175.54	0.36	0.00	0.00	1.12	1.18
4305	4300	4340	26.52	0.02	0.00	0.00	0.17	0.04
4310	4300	4310	136.29	0.22	0.00	0.00	0.87	0.74
4315	4310	4350	9.69	0.00	0.00	0.00	0.06	0.01
4320	4310	4320	113.85	0.16	0.00	0.00	0.73	0.53
4325	4320	4360	0.42	0.00	0.00	0.00	0.00	0.00
4330	4320	4330	100.69	0.13	0.00	0.00	0.64	0.42
4335	4330	4370	-0.75	0.00	0.00	0.00	0.00	0.00
4337	4330	4570	88.70	0.10	0.00	0.00	0.57	0.33
4340	970	4340	124.02	0.19	0.00	0.00	0.79	0.62





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4345	4340	4380	5.29	0.00	0.00	0.00	0.03	0.00
4350	4340	4350	127.22	0.20	0.00	0.00	0.81	0.65
4355	4350	4390	5.29	0.00	0.00	0.00	0.03	0.00
4360	4350	4360	113.59	0.16	0.00	0.00	0.72	0.53
4370	4360	4370	101.27	0.13	0.00	0.00	0.65	0.43
4375	4370	4590	87.78	0.10	0.00	0.00	0.56	0.33
4400	4550	4400	-51.69	0.06	0.00	0.00	0.33	0.12
4410	4400	4410	-60.59	0.06	0.00	0.00	0.39	0.17
4420	4410	4420	-78.62	0.11	0.00	0.00	0.50	0.27
4430	4420	4430	7.21	0.00	0.00	0.00	0.05	0.00
4440	4420	5020	-94.96	0.26	0.00	0.00	0.61	0.38
4500	450	4500	37.08	0.01	0.00	0.00	0.11	0.01
4510	4500	4510	6.64	0.00	0.00	0.00	0.02	0.00
4520	4510	4520	90.82	0.03	0.00	0.00	0.26	0.05
4530	4520	4530	113.35	0.03	0.00	0.00	0.32	0.07
4540	4530	5030	99.65	0.02	0.00	0.00	0.28	0.06
4545	5030	4540	32.31	0.00	0.00	0.00	0.04	0.00
4550	4540	4550	-66.09	0.00	0.00	0.00	0.08	0.00
4560	4550	4560	-97.12	0.00	0.00	0.00	0.12	0.01
4570	4560	4570	-163.78	0.00	0.00	0.00	0.21	0.02
4580	4570	4580	-79.32	0.00	0.00	0.00	0.10	0.01
4590	4580	4590	-83.55	0.00	0.00	0.00	0.11	0.01
4600	600	4600	-18.51	0.01	0.00	0.00	0.12	0.02
4610	4600	4610	-38.23	0.05	0.00	0.00	0.24	0.07
4620	4610	4620	-38.23	0.05	0.00	0.00	0.24	0.07
4630	4620	5040	-38.23	0.05	0.00	0.00	0.24	0.07
4700	610	4700	27.07	0.00	0.00	0.00	0.08	0.01
4710	4700	4710	23.04	0.00	0.00	0.00	0.07	0.00
4720	4710	4720	-153.88	0.09	0.00	0.00	0.44	0.13
4730	4720	4730	-188.60	0.03	0.00	0.00	0.53	0.19
4740	4730	4740	-254.23	0.16	0.00	0.00	0.72	0.33
4750	4740	4750	-290.34	0.07	0.00	0.00	0.82	0.42
4760	4750	5050	-299.95	0.22	0.00	0.00	0.85	0.44
4800	620	4800	235.48	0.02	0.00	0.00	0.67	0.28
4810	4800	4810	-134.59	0.43	0.00	0.00	0.86	0.72
4820	4810	4820	-116.48	0.26	0.00	0.00	0.74	0.55
4830	4820	4830	-116.48	0.26	0.00	0.00	0.74	0.55
4840	4830	4840	-50.85	0.06	0.00	0.00	0.32	0.12
4850	4810	4850	-36.14	0.01	0.00	0.00	0.10	0.01
4860	4840	5060	-50.85	0.08	0.00	0.00	0.32	0.12
4870	4710	4850	137.97	0.53	0.00	0.00	1.57	3.08
4880	4850	4870	101.45	0.85	0.00	0.00	1.15	1.74
4885	4830	4880	-65.63	0.08	0.00	0.00	0.42	0.19





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
4890	4880	4730	-65.63	0.05	0.00	0.00	0.42	0.19
4900	4800	4900	283.96	0.27	0.00	0.00	0.81	0.40
4905	4900	630	-63.43	0.00	0.00	0.00	0.18	0.02
4910	4900	4910	229.99	0.09	0.00	0.00	0.65	0.27
4920	4910	4920	219.32	0.02	0.00	0.00	0.62	0.25
4930	4920	4930	146.89	0.05	0.00	0.00	0.42	0.12
4935	4930	640	-22.78	0.00	0.00	0.00	0.06	0.00
4940	4930	4940	168.13	0.05	0.00	0.00	0.48	0.15
4945	4940	4947	2.16	0.00	0.00	0.00	0.01	0.00
4950	4920	4950	72.42	0.02	0.00	0.00	0.21	0.03
4955	4947	4955	-2.08	0.00	0.00	0.00	0.01	0.00
4957	4955	4995	-24.68	0.01	0.00	0.00	0.16	0.03
4960	4950	4960	42.05	0.00	0.00	0.00	0.12	0.01
4965	4960	4965	86.32	0.01	0.00	0.00	0.24	0.04
4970	4965	4970	67.08	0.01	0.00	0.00	0.19	0.03
4975	4970	4975	49.87	0.01	0.00	0.00	0.14	0.02
4977	4975	4977	41.42	0.00	0.00	0.00	0.12	0.01
4980	4977	4980	30.84	0.00	0.00	0.00	0.09	0.01
4985	4980	4985	-196.00	0.06	0.00	0.00	0.56	0.20
4990	4985	4990	-246.26	0.10	0.00	0.00	0.70	0.31
4993	5080	4990	363.62	0.20	0.00	0.00	1.03	0.63
4995	4980	4995	216.26	0.05	0.00	0.00	0.61	0.24
5000	5000	5010	1433.01	0.60	0.00	0.00	1.81	1.11
5010	5010	5020	1433.01	0.54	0.00	0.00	1.81	1.11
5020	5020	5030	1338.04	0.49	0.00	0.00	1.69	0.98
5030	5030	5040	1393.12	0.74	0.00	0.00	1.76	1.06
5040	5040	5050	1526.27	0.84	0.00	0.00	1.92	1.25
5050	5050	5060	1076.86	0.45	0.00	0.00	1.36	0.66
5060	5060	5070	1026.01	0.67	0.00	0.00	1.29	0.60
5070	5070	5080	1026.01	0.49	0.00	0.00	1.29	0.60
5080	5080	5090	689.57	0.21	0.00	0.00	0.87	0.29
5090	5090	6000	689.57	0.18	0.00	0.00	0.87	0.29
5100	4900	5100	46.67	0.09	0.00	0.00	0.30	0.10
5105	5100	4960	46.67	0.04	0.00	0.00	0.30	0.10
5110	4970	5110	17.22	0.01	0.00	0.00	0.11	0.02
5120	5110	5120	5.49	0.00	0.00	0.00	0.04	0.00
5125	5120	4975	-3.11	0.00	0.00	0.00	0.02	0.00
5130	5120	5130	-7.75	0.00	0.00	0.00	0.05	0.00
5140	5130	5140	-24.10	0.01	0.00	0.00	0.15	0.03
5145	5140	5150	-58.51	0.07	0.00	0.00	0.37	0.15
5150	5150	4990	-69.09	0.08	0.00	0.00	0.44	0.21
5160	5140	5160	8.45	0.00	0.00	0.00	0.05	0.00
5163	5160	4975	23.03	0.01	0.00	0.00	0.15	0.03



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
5165	5160	5170	-29.11	0.02	0.00	0.00	0.19	0.04
5170	5170	4985	-39.68	0.03	0.00	0.00	0.25	0.08
5180	4965	5180	12.02	0.00	0.00	0.00	0.05	0.00
5190	4950	5190	27.97	0.09	0.00	0.00	0.32	0.16
5195	5190	4947	18.36	0.00	0.00	0.00	0.07	0.01
5200	4995	5200	191.59	0.03	0.00	0.00	0.54	0.19
5205	5205	5200	-135.50	0.04	0.00	0.00	0.38	0.10
5210	5205	5210	127.66	0.02	0.00	0.00	0.36	0.09
5215	5210	5260	104.00	0.02	0.00	0.00	0.30	0.06
5217	5210	5215	12.48	0.01	0.00	0.00	0.14	0.04
5220	5220	5215	-4.64	0.00	0.00	0.00	0.05	0.01
5225	5220	5265	88.24	0.01	0.00	0.00	0.25	0.05
5230	5230	5220	91.43	0.02	0.00	0.00	0.26	0.05
5235	5250	5230	-1.40	0.00	0.00	0.00	0.02	0.00
5237	5230	5235	-101.16	0.03	0.00	0.00	0.29	0.06
5240	5200	5240	21.08	0.03	0.00	0.00	0.24	0.09
5250	5240	5250	15.16	0.03	0.00	0.00	0.17	0.05
5252	5250	5210	4.55	0.00	0.00	0.00	0.03	0.00
5255	5200	5255	27.18	0.05	0.00	0.00	0.31	0.15
5260	5255	5260	15.40	0.03	0.00	0.00	0.17	0.05
5265	5260	5265	48.63	0.01	0.00	0.00	0.14	0.02
5270	5260	5270	47.21	0.04	0.00	0.00	0.30	0.10
5272	5270	5279	45.00	0.06	0.00	0.00	0.29	0.10
5275	5280	5279	-19.18	0.00	0.00	0.00	0.12	0.02
5277	5270	5277	0.00	0.00	0.00	0.00	0.00	0.00
5280	4940	5280	80.87	0.20	0.00	0.00	0.52	0.28
5285	5280	5290	16.00	0.01	0.00	0.00	0.10	0.01
5290	5290	5295	16.00	0.01	0.00	0.00	0.18	0.06
5292	5265	5292	26.77	0.05	0.00	0.00	0.30	0.15
5295	5292	5297	26.77	0.05	0.00	0.00	0.30	0.15
5297	5295	5297	-25.14	0.04	0.00	0.00	0.29	0.13
5500	4540	5500	90.89	0.12	0.00	0.00	0.58	0.35
5510	4550	5510	66.33	0.07	0.00	0.00	0.42	0.20
5520	4560	5520	59.17	0.05	0.00	0.00	0.38	0.16
5530	5500	5530	83.39	0.10	0.00	0.00	0.53	0.30
5535	5040	5530	-171.38	0.52	0.00	0.00	1.09	1.13
5540	5510	5540	58.83	0.05	0.00	0.00	0.38	0.16
5545	5530	5540	-95.49	0.10	0.00	0.00	0.61	0.38
5550	5520	5550	51.67	0.04	0.00	0.00	0.33	0.12
5555	5540	5550	-44.17	0.02	0.00	0.00	0.28	0.09
6000	6000	5235	198.04	0.09	0.00	0.00	0.56	0.21
7000	30	7000	2123.23	0.61	0.00	0.00	2.68	2.31
7005	7000	7005	1746.81	0.47	0.00	0.00	2.20	1.61



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7010	7005	7010	1613.05	0.43	0.00	0.00	2.03	1.39
7015	7010	7015	1473.94	0.69	0.00	0.00	1.86	1.17
7020	7015	7020	1097.24	0.45	0.00	0.00	1.38	0.68
7025	7020	7025	1019.45	0.38	0.00	0.00	1.29	0.59
7030	7025	7030	1908.87	0.14	0.00	0.00	2.41	1.89
7035	7030	7035	1559.49	1.13	0.00	0.00	1.97	1.30
7040	7035	7040	1523.24	0.64	0.00	0.00	1.92	1.25
7045	7040	7045	1521.70	0.72	0.00	0.00	1.92	1.25
7050	7045	7050	1499.91	0.33	0.00	0.00	1.89	1.21
7055	7050	7055	1431.60	0.29	0.00	0.00	1.80	1.11
7060	7055	7060	1534.76	0.64	0.00	0.00	1.93	1.27
7070	7060	7070	855.31	0.20	0.00	0.00	1.08	0.43
7075	8775	7070	-312.85	0.04	0.00	0.00	0.89	0.48
7080	7070	7080	542.46	0.83	0.00	0.00	1.54	1.33
7100	7000	7100	98.98	0.27	0.00	0.00	0.63	0.41
7105	7100	7005	83.59	0.20	0.00	0.00	0.53	0.30
7110	7010	7110	98.38	0.47	0.00	0.00	1.12	1.64
7120	7110	7120	43.20	0.22	0.00	0.00	0.49	0.36
7125	7015	7120	-15.99	0.00	0.00	0.00	0.10	0.01
7130	7120	7130	24.40	0.08	0.00	0.00	0.28	0.12
7135	7130	7020	86.25	0.37	0.00	0.00	0.98	1.29
7140	7140	7150	32.10	0.12	0.00	0.00	0.36	0.21
7145	7140	7110	-43.64	0.10	0.00	0.00	0.50	0.36
7150	7150	7160	-1.63	0.00	0.00	0.00	0.02	0.00
7155	7150	7120	15.46	0.00	0.00	0.00	0.10	0.01
7165	7160	7130	40.33	0.08	0.00	0.00	0.46	0.32
7167	7160	7210	-61.19	0.45	0.00	0.00	0.69	0.68
7200	7025	7200	-898.55	0.96	0.00	0.00	2.55	3.38
7210	7200	7210	-513.14	0.32	0.00	0.00	1.46	1.20
7215	7200	7210	-438.38	0.32	0.00	0.00	1.24	0.90
7220	7130	7200	-40.75	0.21	0.00	0.00	0.46	0.32
7300	7300	7310	-211.19	1.31	0.00	0.00	2.40	6.77
7310	7310	7000	-263.02	0.90	0.00	0.00	1.68	2.50
7320	7310	7320	42.21	0.10	0.00	0.00	0.48	0.34
7325	7320	7005	-202.92	0.53	0.00	0.00	1.30	1.55
7330	7320	7330	235.52	0.64	0.00	0.00	1.50	2.04
7340	7330	7340	227.49	1.00	0.00	0.00	1.45	1.91
7343	7340	7400	427.43	1.51	0.00	0.00	2.73	6.15
7345	7340	7300	-207.97	0.43	0.00	0.00	1.33	1.62
7350	7015	7350	363.85	1.26	0.00	0.00	2.32	4.57
7355	7350	7360	20.53	0.06	0.00	0.00	0.23	0.09
7360	7360	7020	-142.54	0.87	0.00	0.00	1.62	3.27
7365	7360	7380	150.96	1.00	0.00	0.00	1.71	3.63





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7370	7370	7350	-333.70	1.02	0.00	0.00	2.13	3.89
7373	7370	7410	307.29	1.00	0.00	0.00	1.96	3.34
7375	7370	7380	16.80	0.04	0.00	0.00	0.19	0.06
7385	7380	7415	155.64	1.15	0.00	0.00	1.77	3.85
7390	7420	7390	2.93	0.00	0.00	0.00	0.03	0.00
7400	7400	7405	63.64	0.45	0.00	0.00	0.72	0.73
7403	7400	7430	345.05	1.27	0.00	0.00	2.20	4.14
7405	7405	7410	44.88	0.28	0.00	0.00	0.51	0.38
7410	7410	7415	37.94	0.19	0.00	0.00	0.43	0.28
7413	7410	7440	280.10	0.87	0.00	0.00	1.79	2.81
7415	7415	7420	51.01	0.10	0.00	0.00	0.58	0.49
7418	7415	7445	122.18	0.74	0.00	0.00	1.39	2.46
7420	7420	7425	24.52	0.06	0.00	0.00	0.28	0.13
7425	7425	7450	14.14	0.02	0.00	0.00	0.16	0.05
7430	7430	7435	44.57	0.23	0.00	0.00	0.51	0.38
7433	7430	7455	281.72	0.84	0.00	0.00	1.80	2.84
7435	7435	7440	25.82	0.10	0.00	0.00	0.29	0.14
7440	7440	7445	19.92	0.06	0.00	0.00	0.23	0.09
7443	7440	7465	254.94	0.74	0.00	0.00	1.63	2.36
7448	7445	7470	119.02	0.73	0.00	0.00	1.35	2.34
7455	7455	7460	37.82	0.17	0.00	0.00	0.43	0.28
7458	7455	7480	225.15	0.59	0.00	0.00	1.44	1.88
7459	7495	7520	76.79	0.21	0.00	0.00	0.87	1.04
7460	7460	7465	19.07	0.06	0.00	0.00	0.22	0.08
7465	7465	7470	17.52	0.05	0.00	0.00	0.20	0.07
7468	7465	7490	226.01	0.57	0.00	0.00	1.44	1.89
7473	7470	7495	113.55	0.65	0.00	0.00	1.29	2.14
7480	7480	7485	36.91	0.16	0.00	0.00	0.42	0.27
7483	7480	7505	166.84	0.21	0.00	0.00	1.06	1.08
7485	7485	7490	18.16	0.05	0.00	0.00	0.21	0.07
7490	7490	7495	29.24	0.12	0.00	0.00	0.33	0.17
7493	7490	7515	176.22	0.23	0.00	0.00	1.12	1.19
7495	7495	7500	34.03	0.15	0.00	0.00	0.39	0.23
7500	7500	7475	0.58	0.00	0.00	0.00	0.01	0.00
7503	7500	7080	16.63	0.01	0.00	0.00	0.19	0.06
7504	7080	7525	555.96	0.07	0.00	0.00	1.58	1.39
7505	7505	7510	90.53	0.23	0.00	0.00	0.58	0.35
7508	7505	7550	69.58	0.08	0.00	0.00	0.44	0.21
7510	7510	7515	-8.42	0.00	0.00	0.00	0.05	0.00
7513	7510	7530	85.49	0.27	0.00	0.00	0.97	1.27
7515	7515	7520	56.14	0.10	0.00	0.00	0.36	0.14
7518	7515	7535	98.20	0.35	0.00	0.00	1.11	1.64
7520	7520	7525	27.34	0.03	0.00	0.00	0.17	0.04



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7523	7520	7540	92.12	0.32	0.00	0.00	1.05	1.46
7528	7525	7545	573.97	0.29	0.00	0.00	1.63	1.47
7530	7530	7535	24.34	0.08	0.00	0.00	0.28	0.12
7533	7530	7555	54.42	0.10	0.00	0.00	0.62	0.55
7535	7535	7540	20.43	0.06	0.00	0.00	0.23	0.09
7538	7535	7565	88.64	0.49	0.00	0.00	1.01	1.36
7540	7540	7545	5.21	0.00	0.00	0.00	0.06	0.01
7543	7540	7570	93.88	0.53	0.00	0.00	1.07	1.51
7548	7545	7575	572.45	0.54	0.00	0.00	1.62	1.47
7550	7550	7555	65.46	0.52	0.00	0.00	0.74	0.77
7553	7550	7573	-9.34	0.00	0.00	0.00	0.06	0.01
7558	7555	7560	106.41	0.34	0.00	0.00	1.21	1.90
7560	7560	7565	31.21	0.13	0.00	0.00	0.35	0.20
7563	7560	7577	61.73	0.03	0.00	0.00	0.39	0.17
7565	7565	7570	27.15	0.10	0.00	0.00	0.31	0.15
7568	7565	7590	65.78	0.29	0.00	0.00	0.75	0.78
7570	7570	7575	7.29	0.01	0.00	0.00	0.08	0.01
7572	7573	7577	186.97	0.89	0.00	0.00	1.19	1.33
7573	7570	7595	86.82	0.48	0.00	0.00	0.99	1.30
7576	7573	7580	-209.77	0.32	0.00	0.00	1.34	1.65
7577	7577	7585	235.24	0.38	0.00	0.00	1.50	2.04
7578	7575	7600	566.28	0.52	0.00	0.00	1.61	1.44
7582	7580	80	-220.01	0.21	0.00	0.00	1.40	1.80
7583	7580	7605	10.24	0.00	0.00	0.00	0.12	0.02
7585	7585	7590	7.77	0.01	0.00	0.00	0.09	0.01
7588	7585	7610	214.00	0.59	0.00	0.00	1.37	1.71
7590	7590	7595	48.07	0.30	0.00	0.00	0.55	0.44
7595	7595	7600	17.14	0.04	0.00	0.00	0.19	0.06
7598	7595	7620	92.26	0.51	0.00	0.00	1.05	1.46
7603	7600	7625	570.68	0.49	0.00	0.00	1.62	1.46
7610	7610	7615	71.96	0.15	0.00	0.00	0.46	0.23
7613	7610	10000	130.03	0.21	0.00	0.00	0.83	0.68
7615	7615	7620	47.92	0.07	0.00	0.00	0.31	0.11
7620	7620	7625	30.15	0.03	0.00	0.00	0.19	0.05
7623	7620	10020	85.65	0.40	0.00	0.00	0.97	1.27
7628	7625	10030	588.47	0.51	0.00	0.00	1.67	1.54
7700	510	7700	66.15	0.54	0.00	0.00	0.75	0.79
7703	7700	7720	1298.62	0.58	0.00	0.00	2.07	1.65
7705	7700	7705	40.56	0.21	0.00	0.00	0.46	0.32
7710	7705	7710	17.63	0.05	0.00	0.00	0.20	0.07
7713	7710	7730	215.42	0.62	0.00	0.00	1.37	1.73
7715	7710	7715	-38.02	0.19	0.00	0.00	0.43	0.28
7718	7715	7735	39.83	0.81	0.00	0.00	1.02	2.22



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7720	505	7720	17.78	0.05	0.00	0.00	0.20	0.07
7723	7720	7740	1237.11	0.55	0.00	0.00	1.97	1.51
7725	7720	7725	44.53	0.25	0.00	0.00	0.51	0.38
7730	7725	7730	18.91	0.05	0.00	0.00	0.21	0.08
7733	7730	7750	209.92	0.59	0.00	0.00	1.34	1.65
7735	7730	7735	4.07	0.00	0.00	0.00	0.05	0.00
7738	7735	7755	33.42	0.56	0.00	0.00	0.85	1.60
7740	500	7740	-153.39	0.22	0.00	0.00	0.63	0.31
7743	7740	7760	955.00	1.31	0.00	0.00	2.71	3.79
7745	7740	7745	108.66	0.11	0.00	0.00	0.44	0.16
7750	7745	7750	89.14	0.24	0.00	0.00	0.57	0.34
7753	7750	7770	299.39	1.12	0.00	0.00	1.91	3.18
7755	7750	7755	-27.06	0.02	0.00	0.00	0.17	0.04
7758	7755	7775	123.82	0.89	0.00	0.00	1.40	2.52
7760	495	7760	-26.81	0.10	0.00	0.00	0.30	0.15
7763	7760	7780	861.51	1.17	0.00	0.00	2.44	3.13
7765	7760	7765	34.10	0.16	0.00	0.00	0.39	0.23
7770	7765	7770	-0.81	0.00	0.00	0.00	0.01	0.00
7773	7770	7790	310.29	1.22	0.00	0.00	1.98	3.40
7775	7770	7775	-46.08	0.26	0.00	0.00	0.52	0.40
7778	7775	7795	62.59	1.88	0.00	0.00	1.60	5.13
7780	490	7780	-31.89	0.14	0.00	0.00	0.36	0.20
7782	7780	7805	756.75	0.42	0.00	0.00	2.15	2.46
7783	7805	7800	709.08	0.42	0.00	0.00	2.01	2.18
7785	7780	7785	40.55	0.21	0.00	0.00	0.46	0.32
7790	7785	7790	3.34	0.00	0.00	0.00	0.04	0.00
7793	7790	7820	219.87	0.69	0.00	0.00	1.40	1.80
7795	7790	7795	57.21	0.40	0.00	0.00	0.65	0.60
7798	7795	7825	106.82	0.71	0.00	0.00	1.21	1.92
7800	485	7800	-49.75	0.32	0.00	0.00	0.56	0.47
7803	7800	7900	662.51	0.36	0.00	0.00	1.88	1.92
7805	7805	7810	45.75	0.26	0.00	0.00	0.52	0.40
7810	7800	7815	-8.81	0.09	0.00	0.00	0.22	0.14
7813	7810	7815	43.82	0.07	0.00	0.00	0.50	0.37
7815	7815	7820	32.61	0.15	0.00	0.00	0.37	0.21
7820	7820	7825	20.69	0.42	0.00	0.00	0.53	0.66
7823	7820	7910	225.55	0.35	0.00	0.00	1.44	1.88
7828	7825	7915	123.67	0.02	0.00	0.00	0.35	0.09
7830	465	7830	-46.07	0.28	0.00	0.00	0.52	0.40
7833	7830	7940	195.20	0.52	0.00	0.00	1.25	1.44
7835	7830	7835	-27.77	0.10	0.00	0.00	0.32	0.16
7840	7835	7840	-30.89	0.14	0.00	0.00	0.35	0.19
7843	7840	7950	102.70	0.16	0.00	0.00	0.66	0.44





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
7845	7840	7845	-17.81	0.05	0.00	0.00	0.20	0.07
7848	7845	7955	257.34	0.13	0.00	0.00	0.73	0.33
7850	705	7850	-148.90	0.61	0.00	0.00	0.95	0.87
7855	7850	7855	18.75	0.01	0.00	0.00	0.12	0.02
7860	7855	7860	13.75	0.00	0.00	0.00	0.09	0.01
7862	7860	7880	182.70	0.62	0.00	0.00	2.07	5.18
7865	7860	7865	-173.76	0.56	0.00	0.00	1.11	1.16
7870	7865	7870	8.08	0.00	0.00	0.00	0.05	0.00
7875	7875	7880	-91.35	0.24	0.00	0.00	1.04	1.43
7880	7880	7885	91.35	0.52	0.00	0.00	1.04	1.43
7890	7890	7895	-91.35	0.66	0.00	0.00	1.04	1.43
7898	8000	7895	93.76	0.12	0.00	0.00	0.60	0.37
7900	480	7900	-173.67	0.11	0.00	0.00	0.49	0.16
7903	7900	7920	378.60	0.26	0.00	0.00	1.07	0.68
7905	7900	7905	87.35	0.03	0.00	0.00	0.25	0.05
7910	7905	7910	67.35	0.02	0.00	0.00	0.19	0.03
7913	7910	7930	121.03	0.22	0.00	0.00	0.77	0.59
7915	7910	7915	152.77	0.08	0.00	0.00	0.43	0.13
7917	7915	7917	0.00	0.00	0.00	0.00	0.00	0.00
7918	7915	7935	272.54	0.14	0.00	0.00	0.77	0.37
7920	470	7920	-108.55	0.34	0.00	0.00	0.69	0.49
7923	7920	7830	223.12	0.37	0.00	0.00	1.42	1.85
7925	7920	7925	37.07	0.01	0.00	0.00	0.11	0.01
7930	7925	7930	27.45	0.00	0.00	0.00	0.08	0.01
7933	7930	7840	123.00	0.12	0.00	0.00	0.79	0.61
7935	7930	7935	15.88	0.00	0.00	0.00	0.05	0.00
7937	7845	7937	0.53	0.00	0.00	0.00	0.00	0.00
7938	7935	7845	281.20	0.07	0.00	0.00	0.80	0.39
7940	700	7940	-288.19	0.28	0.00	0.00	0.82	0.41
7943	7940	7850	176.49	0.43	0.00	0.00	1.13	1.20
7945	7940	7945	-290.16	0.27	0.00	0.00	0.82	0.42
7950	7945	7950	-310.83	0.33	0.00	0.00	0.88	0.47
7953	7950	7865	186.65	0.49	0.00	0.00	1.19	1.33
7955	7950	7955	-410.65	0.08	0.00	0.00	0.52	0.11
8000	710	8000	79.59	0.76	0.00	0.00	0.90	1.11
8003	8000	8020	-50.10	0.02	0.00	0.00	0.32	0.12
8005	8000	8005	22.38	0.06	0.00	0.00	0.25	0.11
8010	8005	8010	6.61	0.01	0.00	0.00	0.08	0.01
8013	8010	8030	-10.36	0.00	0.00	0.00	0.12	0.03
8015	8010	8015	3.99	0.00	0.00	0.00	0.05	0.00
8020	715	8020	64.93	0.51	0.00	0.00	0.74	0.76
8023	8020	8040	-23.16	0.01	0.00	0.00	0.15	0.03
8025	8020	8025	24.42	0.07	0.00	0.00	0.28	0.12





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8030	8025	8030	8.03	0.01	0.00	0.00	0.09	0.02
8033	8030	8050	-34.54	0.08	0.00	0.00	0.39	0.24
8035	8030	8035	11.30	0.02	0.00	0.00	0.13	0.03
8040	720	8040	188.86	0.13	0.00	0.00	0.54	0.19
8043	8040	8060	98.91	0.14	0.00	0.00	0.63	0.41
8045	8040	8045	41.69	0.01	0.00	0.00	0.12	0.01
8050	8045	8050	16.60	0.00	0.00	0.00	0.05	0.00
8053	8050	8070	76.62	0.35	0.00	0.00	0.87	1.04
8055	8050	8055	-115.73	0.05	0.00	0.00	0.33	0.08
8060	725	8060	9.18	0.01	0.00	0.00	0.10	0.02
8065	8060	8065	71.74	0.61	0.00	0.00	0.81	0.92
8070	8065	8070	-57.39	0.39	0.00	0.00	0.65	0.61
8075	8075	8060	-16.15	0.02	0.00	0.00	0.18	0.06
8080	730	8080	16.64	0.01	0.00	0.00	0.11	0.02
8085	8080	8085	8.32	0.02	0.00	0.00	0.21	0.12
8090	8065	8090	114.71	0.43	0.00	0.00	0.73	0.54
8095	8090	8095	8.16	0.00	0.00	0.00	0.05	0.00
8100	750	8100	89.30	0.23	0.00	0.00	0.57	0.34
8105	8100	8105	89.30	0.12	0.00	0.00	0.57	0.34
8110	8105	8110	45.40	0.03	0.00	0.00	0.29	0.10
8115	8105	8115	32.26	0.03	0.00	0.00	0.21	0.05
8117	8115	8120	6.77	0.00	0.00	0.00	0.04	0.00
8120	8110	8120	7.27	0.00	0.00	0.00	0.05	0.00
8125	8115	8125	2.40	0.00	0.00	0.00	0.02	0.00
8130	8120	8130	2.40	0.00	0.00	0.00	0.02	0.00
8135	8095	8135	-10.64	0.00	0.00	0.00	0.07	0.01
8137	8135	8115	-15.83	0.00	0.00	0.00	0.10	0.01
8140	8095	8140	1.01	0.00	0.00	0.00	0.01	0.00
8145	8110	8145	30.87	0.02	0.00	0.00	0.20	0.05
8200	8055	8200	-124.38	0.22	0.00	0.00	0.79	0.63
8205	8200	8205	0.91	0.00	0.00	0.00	0.01	0.00
8210	8205	8210	0.00	0.00	0.00	0.00	0.00	0.00
8215	8200	8215	-126.26	0.34	0.00	0.00	0.81	0.64
8220	8215	8220	-70.16	0.58	0.00	0.00	0.80	0.88
8225	8220	8225	-92.28	0.81	0.00	0.00	1.05	1.46
8227	8225	8240	224.42	0.12	0.00	0.00	0.64	0.26
8230	8215	8230	-69.94	0.10	0.00	0.00	0.45	0.22
8235	8230	8235	-62.76	0.48	0.00	0.00	0.71	0.72
8240	8235	8240	-84.87	0.70	0.00	0.00	0.96	1.25
8247	8240	8265	117.43	0.04	0.00	0.00	0.33	0.08
8250	8230	8250	-29.30	0.02	0.00	0.00	0.19	0.04
8255	8250	8255	-40.36	0.20	0.00	0.00	0.46	0.32
8260	8255	8260	-54.01	0.03	0.00	0.00	0.61	0.54



## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8265	8260	8265	-99.16	0.89	0.00	0.00	1.13	1.67
8270	8255	8270	2.59	0.00	0.00	0.00	0.02	0.00
8275	8270	8275	-3.18	0.00	0.00	0.00	0.02	0.00
8278	8275	8290	-12.99	0.00	0.00	0.00	0.08	0.01
8280	8275	8280	4.04	0.00	0.00	0.00	0.03	0.00
8285	8280	8285	-1.73	0.00	0.00	0.00	0.01	0.00
8290	8285	8290	-10.62	0.00	0.00	0.00	0.07	0.01
8295	8290	8295	-32.51	0.02	0.00	0.00	0.21	0.05
8297	8295	8260	-34.09	0.01	0.00	0.00	0.22	0.06
8300	90000	8300	193.65	0.86	0.00	0.00	1.24	1.42
8303	90000	8300	91.65	0.86	0.00	0.00	1.04	1.44
8305	8300	8310	281.12	0.28	0.00	0.00	0.80	0.39
8310	8310	8320	336.70	0.35	0.00	0.00	0.96	0.55
8325	8320	8225	335.84	0.13	0.00	0.00	0.95	0.55
8330	8310	8330	-55.58	0.08	0.00	0.00	0.35	0.14
8340	8330	8340	-55.58	0.12	0.00	0.00	0.35	0.14
8350	8340	8350	4.81	0.00	0.00	0.00	0.05	0.01
8360	8320	8360	0.00	0.00	0.00	0.00	0.00	0.00
8370	8360	8370	0.00	0.00	0.00	0.00	0.00	0.00
8380	8340	8380	-60.39	0.40	0.00	0.00	0.69	0.67
8390	8380	10190	-67.60	0.56	0.00	0.00	0.77	0.82
8400	10070	8400	129.02	0.06	0.00	0.00	0.82	0.67
8410	8400	8410	1.55	0.00	0.00	0.00	0.01	0.00
8420	8410	8420	-6.34	0.00	0.00	0.00	0.04	0.00
8425	8420	10080	-4.12	0.00	0.00	0.00	0.01	0.00
8430	8410	8430	7.32	0.00	0.00	0.00	0.05	0.00
8440	8430	8440	6.74	0.00	0.00	0.00	0.04	0.00
8450	8440	8450	3.18	0.00	0.00	0.00	0.04	0.00
8455	8450	8420	2.22	0.00	0.00	0.00	0.01	0.00
8460	8440	8460	2.50	0.00	0.00	0.00	0.06	0.01
8470	8460	8470	1.25	0.00	0.00	0.00	0.01	0.00
8500	10090	8500	609.57	0.62	0.00	0.00	1.73	1.65
8510	8500	8510	608.36	0.60	0.00	0.00	1.73	1.64
8515	8510	8515	0.00	0.00	0.00	0.00	0.00	0.00
8520	8510	8520	548.96	0.51	0.00	0.00	1.56	1.36
8525	8520	8525	7.40	0.00	0.00	0.00	0.08	0.01
8530	8520	8530	540.55	0.27	0.00	0.00	1.53	1.32
8540	8530	8540	540.30	0.24	0.00	0.00	1.53	1.32
8550	8540	8550	536.99	0.48	0.00	0.00	1.52	1.30
8555	8550	90000	532.43	1.28	0.00	0.00	2.17	3.12
8560	8550	8560	24.57	0.02	0.00	0.00	0.16	0.03
8600	10100	8600	114.78	0.82	0.00	0.00	1.30	2.19
8605	8600	8610	8.84	0.01	0.00	0.00	0.10	0.02



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8610	10110	8610	116.37	0.82	0.00	0.00	1.32	2.24
8615	8610	10140	-4.02	0.00	0.00	0.00	0.05	0.00
8620	8600	8620	98.77	0.61	0.00	0.00	1.12	1.66
8622	8620	8510	-57.67	0.22	0.00	0.00	0.65	0.61
8625	8620	8630	36.75	0.09	0.00	0.00	0.42	0.27
8630	8610	8630	106.11	0.70	0.00	0.00	1.20	1.89
8635	8630	10160	15.95	0.04	0.00	0.00	0.18	0.06
8640	8620	8640	111.86	0.77	0.00	0.00	1.27	2.09
8645	8640	8650	-19.39	0.03	0.00	0.00	0.22	0.08
8650	8630	8650	101.67	0.65	0.00	0.00	1.15	1.75
8655	8650	10170	-1.86	0.00	0.00	0.00	0.02	0.00
8660	8640	8660	129.57	0.26	0.00	0.00	0.83	0.67
8665	8660	8670	76.34	0.09	0.00	0.00	0.49	0.25
8670	8650	8670	74.24	0.38	0.00	0.00	0.84	0.98
8675	8670	10180	39.06	0.21	0.00	0.00	0.44	0.30
8680	8660	8680	52.08	0.22	0.00	0.00	0.59	0.51
8685	8680	8550	44.86	0.03	0.00	0.00	0.29	0.09
8690	8670	8690	107.19	1.40	0.00	0.00	1.22	1.93
8692	8690	90000	49.66	0.03	0.00	0.00	0.20	0.04
8695	8690	10190	57.53	0.04	0.00	0.00	0.23	0.05
8700	8400	8700	119.49	0.30	0.00	0.00	0.76	0.58
8705	8700	7755	138.38	0.04	0.00	0.00	0.88	0.76
8710	8700	8710	-26.97	0.38	0.00	0.00	0.69	1.08
8715	8710	10060	-38.56	0.18	0.00	0.00	0.44	0.29
8720	10060	8720	5.10	0.00	0.00	0.00	0.06	0.01
8725	8725	10050	-9.66	0.01	0.00	0.00	0.11	0.02
8730	10050	8730	5.91	0.00	0.00	0.00	0.07	0.01
8735	10040	8735	11.88	0.02	0.00	0.00	0.13	0.03
8740	10040	8740	-48.08	0.03	0.00	0.00	0.31	0.11
8745	8740	8745	8.41	0.01	0.00	0.00	0.10	0.02
8750	8740	8750	-64.91	0.02	0.00	0.00	0.41	0.19
8755	8750	8755	216.36	3.94	0.00	0.00	2.45	7.08
8760	8750	8760	-289.58	1.61	0.00	0.00	1.85	2.99
8765	8760	8765	3.08	0.00	0.00	0.00	0.03	0.00
8770	8760	8770	2.40	0.00	0.00	0.00	0.03	0.00
8775	8760	8775	-305.64	1.97	0.00	0.00	1.95	3.31
8800	10100	8800	0.96	0.00	0.00	0.00	0.01	0.00
8805	10115	8810	-65.47	0.15	0.00	0.00	0.74	0.77
8810	8810	8900	-5.91	0.04	0.00	0.00	0.15	0.06
8815	8810	8820	-70.91	0.33	0.00	0.00	0.80	0.90
8820	8820	8910	-8.11	0.01	0.00	0.00	0.09	0.02
8825	8820	8830	-76.26	0.35	0.00	0.00	0.87	1.03
8830	8830	8920	3.27	0.00	0.00	0.00	0.04	0.00





## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
8835	8830	8840	-84.01	0.50	0.00	0.00	0.95	1.23
8840	8840	8845	1.59	0.00	0.00	0.00	0.02	0.00
8845	8840	8850	-87.13	0.90	0.00	0.00	0.99	1.31
8850	8850	8970	-89.15	0.93	0.00	0.00	1.01	1.37
8900	8900	10120	411.87	0.16	0.00	0.00	1.17	0.80
8910	8900	8910	-436.80	0.32	0.00	0.00	1.24	0.89
8920	8910	8920	-461.59	0.34	0.00	0.00	1.31	0.98
8930	8920	8930	-408.03	0.29	0.00	0.00	1.16	0.78
8940	8930	8940	-431.35	0.27	0.00	0.00	1.22	0.87
8950	8940	8950	-431.88	0.36	0.00	0.00	1.23	0.87
8960	8950	8960	-432.36	0.58	0.00	0.00	1.23	0.87
8965	8960	8975	-519.91	0.40	0.00	0.00	1.47	1.23
8970	8970	8975	525.10	0.43	0.00	0.00	1.49	1.25
8980	8970	8980	-616.17	0.77	0.00	0.00	1.75	1.68
8990	8980	7060	-679.45	0.84	0.00	0.00	1.93	2.02
9000	10190	9000	-481.68	0.91	0.00	0.00	1.37	1.07
9010	9000	9010	-485.91	0.52	0.00	0.00	1.38	1.08
9020	9010	9020	-486.10	0.82	0.00	0.00	1.38	1.08
9030	9020	9030	-486.10	0.58	0.00	0.00	1.38	1.08
9040	9040	9030	315.89	0.37	0.00	0.00	0.90	0.49
9050	9040	9050	-315.89	0.19	0.00	0.00	0.90	0.49
9060	9050	9060	-363.71	0.12	0.00	0.00	1.03	0.63
9070	9060	9070	-413.09	0.30	0.00	0.00	1.17	0.80
9080	9070	9080	-477.73	0.38	0.00	0.00	1.36	1.05
9085	9080	70200	-555.77	0.29	0.00	0.00	1.58	1.39
9090	9090	70200	307.96	0.08	0.00	0.00	0.87	0.47
9100	9090	9100	-358.74	0.11	0.00	0.00	1.02	0.62
9110	9100	9110	-436.31	0.27	0.00	0.00	1.24	0.89
9115	9110	9115	4.81	0.00	0.00	0.00	0.01	0.00
9120	9110	9120	-467.18	0.42	0.00	0.00	1.33	1.01
9130	9120	9130	-519.59	1.03	0.00	0.00	1.47	1.23
9140	9130	9140	-418.79	0.60	0.00	0.00	1.19	0.82
9150	9140	9150	396.33	0.47	0.00	0.00	1.12	0.74
9160	9150	9160	233.37	0.13	0.00	0.00	0.66	0.28
9170	9170	9160	-233.37	0.06	0.00	0.00	0.66	0.28
9175	9170	9175	140.01	0.71	0.00	0.00	0.89	0.78
9180	9180	9170	-130.23	0.06	0.00	0.00	0.37	0.09
9190	9190	9180	84.80	0.03	0.00	0.00	0.24	0.04
9195	8960	9190	84.80	0.00	0.00	0.00	0.24	0.04
9200	7055	9200	-63.55	0.07	0.00	0.00	0.41	0.18
9210	9200	9210	-72.06	0.10	0.00	0.00	0.46	0.23
9215	9210	9240	-80.57	0.08	0.00	0.00	0.51	0.28
9220	7050	9220	-27.46	0.02	0.00	0.00	0.18	0.04



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9230	9220	9230	-34.86	0.02	0.00	0.00	0.22	0.06
9235	9230	9260	-130.43	0.19	0.00	0.00	0.83	0.68
9240	9230	9240	84.61	0.07	0.00	0.00	0.54	0.31
9250	7045	9250	62.81	0.07	0.00	0.00	0.40	0.18
9260	9250	9260	55.03	0.04	0.00	0.00	0.35	0.14
9265	9260	9280	-86.75	0.08	0.00	0.00	0.55	0.32
9270	7045	9860	-41.02	0.02	0.00	0.00	0.26	0.08
9275	9270	9860	-42.13	0.03	0.00	0.00	0.27	0.08
9280	9270	9280	34.68	0.02	0.00	0.00	0.22	0.06
9300	7030	9300	160.08	0.53	0.00	0.00	1.02	1.00
9310	9300	9310	160.08	0.31	0.00	0.00	1.02	1.00
9315	9330	9310	-160.08	0.29	0.00	0.00	1.02	1.00
9320	7030	9320	167.75	0.55	0.00	0.00	1.07	1.09
9330	9320	9330	163.42	0.58	0.00	0.00	1.04	1.04
9333	9330	9333	300.62	0.79	0.00	0.00	1.92	3.21
9335	9333	9337	114.32	0.24	0.00	0.00	0.73	0.53
9337	9370	9337	-148.52	0.24	0.00	0.00	0.95	0.87
9340	9280	9340	-62.03	0.01	0.00	0.00	0.18	0.02
9345	9340	9345	-25.02	0.01	0.00	0.00	0.16	0.03
9348	9345	9355	-30.50	0.01	0.00	0.00	0.19	0.05
9350	9340	9350	-45.42	0.03	0.00	0.00	0.29	0.10
9355	9350	9355	7.45	0.00	0.00	0.00	0.05	0.00
9360	9350	9360	-62.63	0.05	0.00	0.00	0.40	0.18
9365	9355	9365	-30.84	0.01	0.00	0.00	0.20	0.05
9368	9365	9385	-33.01	0.02	0.00	0.00	0.21	0.05
9370	9360	9370	-95.18	0.05	0.00	0.00	0.61	0.38
9375	9360	9375	21.40	0.01	0.00	0.00	0.14	0.02
9380	9370	9380	46.28	0.02	0.00	0.00	0.30	0.10
9385	9375	9385	35.27	0.01	0.00	0.00	0.23	0.06
9387	9375	9390	-23.01	0.01	0.00	0.00	0.15	0.03
9390	9380	9390	38.05	0.04	0.00	0.00	0.24	0.07
9395	9390	9395	5.48	0.00	0.00	0.00	0.03	0.00
9400	7210	9400	-1024.10	5.40	0.00	0.00	2.90	4.31
9410	9400	9410	310.00	0.21	0.00	0.00	0.88	0.47
9415	9410	9415	8.27	0.00	0.00	0.00	0.05	0.00
9420	9410	9420	305.19	0.29	0.00	0.00	0.87	0.46
9425	9415	9425	5.87	0.00	0.00	0.00	0.04	0.00
9430	9420	9430	292.26	0.16	0.00	0.00	0.83	0.42
9435	9425	9410	3.46	0.00	0.00	0.00	0.02	0.00
9440	9430	9440	292.26	0.19	0.00	0.00	0.83	0.42
9460	9400	9460	-911.61	0.18	0.00	0.00	1.15	0.48
9470	9460	9470	-917.38	0.14	0.00	0.00	1.16	0.49
9480	9470	9480	0.00	0.00	0.00	0.00	0.00	0.00



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9490	9440	9490	10.39	0.00	0.00	0.00	0.07	0.01
9500	8930	9500	15.63	0.04	0.00	0.00	0.18	0.05
9503	9500	9510	45.10	0.14	0.00	0.00	0.51	0.39
9505	9500	9505	-41.49	0.22	0.00	0.00	0.47	0.33
9507	9175	9505	132.27	0.34	0.00	0.00	0.84	0.70
9510	8920	9510	-62.69	0.12	0.00	0.00	0.40	0.18
9513	9510	9513	0.00	0.00	0.00	0.00	0.00	0.00
9515	9510	9515	-36.39	0.17	0.00	0.00	0.41	0.26
9520	8910	9520	-11.01	0.02	0.00	0.00	0.12	0.03
9525	9520	9525	-32.31	0.14	0.00	0.00	0.37	0.21
9530	8900	9530	3.73	0.00	0.00	0.00	0.04	0.00
9535	9530	9535	-16.80	0.04	0.00	0.00	0.19	0.06
9540	10130	9540	22.68	0.08	0.00	0.00	0.26	0.11
9545	9540	9545	3.55	0.00	0.00	0.00	0.04	0.00
9550	10150	9550	40.28	0.09	0.00	0.00	0.46	0.31
9555	9550	9555	40.28	0.13	0.00	0.00	0.46	0.31
9557	9555	9570	105.11	0.09	0.00	0.00	0.67	0.46
9560	9555	9560	-76.52	0.68	0.00	0.00	0.87	1.03
9565	10160	9565	184.02	0.39	0.00	0.00	1.17	1.29
9570	9565	9570	-171.77	0.46	0.00	0.00	1.10	1.14
9575	9565	9575	0.00	0.00	0.00	0.00	0.00	0.00
9580	10185	9580	0.34	0.00	0.00	0.00	0.00	0.00
9585	9570	9585	-66.67	0.04	0.00	0.00	0.43	0.20
9590	9590	9595	7.45	0.00	0.00	0.00	0.05	0.00
9600	9505	9600	86.45	0.06	0.00	0.00	0.55	0.32
9605	9600	9515	134.38	0.13	0.00	0.00	0.86	0.72
9610	9515	9605	85.78	0.30	0.00	0.00	0.97	1.28
9615	9605	9525	98.95	0.18	0.00	0.00	1.12	1.66
9620	9525	9610	59.91	0.13	0.00	0.00	0.68	0.66
9625	9610	9535	103.82	0.31	0.00	0.00	1.18	1.82
9630	9535	9545	103.37	0.70	0.00	0.00	1.17	1.80
9635	9545	9560	120.92	0.22	0.00	0.00	0.77	0.59
9640	9560	9640	61.97	0.06	0.00	0.00	0.40	0.17
9645	9640	9585	76.33	0.67	0.00	0.00	0.87	1.03
9650	9640	9650	-4.66	0.00	0.00	0.00	0.03	0.00
9655	9650	9590	13.80	0.01	0.00	0.00	0.09	0.01
9660	9595	9660	5.77	0.01	0.00	0.00	0.07	0.01
9665	9650	9670	-28.89	0.11	0.00	0.00	0.33	0.17
9670	9670	9675	3.17	0.00	0.00	0.00	0.04	0.00
9673	9670	9673	-36.15	0.01	0.00	0.00	0.23	0.06
9675	9680	9673	-11.66	0.00	0.00	0.00	0.07	0.01
9678	9673	9050	-47.81	0.07	0.00	0.00	0.31	0.11
9680	9640	9680	-30.32	0.12	0.00	0.00	0.34	0.19





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
9683	9680	9060	-39.53	0.18	0.00	0.00	0.45	0.30
9685	9020	9685	0.00	0.00	0.00	0.00	0.00	0.00
9687	9685	9687	0.00	0.00	0.00	0.00	0.00	0.00
9688	9685	9688	0.00	0.00	0.00	0.00	0.00	0.00
9700	9170	9700	-36.87	0.04	0.00	0.00	0.24	0.07
9710	9700	9710	-38.94	0.03	0.00	0.00	0.25	0.07
9720	9710	9720	-38.94	0.03	0.00	0.00	0.25	0.07
9725	9720	9130	105.27	0.04	0.00	0.00	0.30	0.06
9730	9150	9730	153.34	0.05	0.00	0.00	0.43	0.13
9735	9730	9720	151.18	0.05	0.00	0.00	0.43	0.12
9740	9600	9740	-47.94	0.06	0.00	0.00	0.31	0.11
9745	9740	9120	-47.94	0.08	0.00	0.00	0.31	0.11
9750	9605	9750	-19.62	0.04	0.00	0.00	0.22	0.08
9755	9750	9110	-26.06	0.10	0.00	0.00	0.30	0.14
9760	9610	9760	-47.95	0.07	0.00	0.00	0.31	0.11
9765	9760	9100	-65.50	0.12	0.00	0.00	0.42	0.19
9770	9535	9770	-33.14	0.14	0.00	0.00	0.38	0.22
9775	9770	9090	-45.25	0.24	0.00	0.00	0.51	0.39
9780	9545	9780	-40.54	0.21	0.00	0.00	0.46	0.32
9785	9780	9080	-67.22	0.50	0.00	0.00	0.76	0.81
9790	9560	9790	-40.93	0.21	0.00	0.00	0.46	0.32
9795	9790	9070	-53.82	0.33	0.00	0.00	0.61	0.54
9800	9333	9800	182.65	0.18	0.00	0.00	1.17	1.27
9810	9800	9810	44.88	0.04	0.00	0.00	0.29	0.09
9815	9810	9337	39.54	0.01	0.00	0.00	0.25	0.07
9820	9800	9820	134.12	0.19	0.00	0.00	0.86	0.72
9830	9820	9830	45.42	0.04	0.00	0.00	0.29	0.10
9835	9830	9850	34.36	0.02	0.00	0.00	0.22	0.06
9840	9820	9840	79.08	0.07	0.00	0.00	0.50	0.27
9850	9840	9850	-23.30	0.01	0.00	0.00	0.15	0.03
9860	9840	9860	92.77	0.11	0.00	0.00	0.59	0.36
9870	7050	9870	78.75	0.15	0.00	0.00	0.50	0.27
9880	9870	9880	67.69	0.06	0.00	0.00	0.43	0.20
9890	9880	7055	56.63	0.08	0.00	0.00	0.36	0.15
9900	9140	9900	3.68	0.00	0.00	0.00	0.01	0.00
9910	9900	9910	3.68	0.00	0.00	0.00	0.01	0.00
9920	9910	9920	304.22	0.29	0.00	0.00	0.86	0.46
10003	10000	7700	1297.08	0.60	0.00	0.00	2.07	1.64
10005	100	10000	1905.87	1.32	0.00	0.00	2.40	1.89
10010	10000	10010	720.79	0.20	0.00	0.00	0.91	0.31
10020	10010	10020	696.75	0.21	0.00	0.00	0.88	0.29
10023	10020	7710	182.46	0.45	0.00	0.00	1.16	1.27
10030	10020	10030	575.90	0.14	0.00	0.00	0.73	0.21





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
10033	10030	7715	89.87	0.12	0.00	0.00	0.57	0.34
10040	10030	10040	1053.06	0.43	0.00	0.00	1.33	0.63
10050	10040	10050	1077.72	0.24	0.00	0.00	1.36	0.66
10060	10050	10060	1046.56	0.22	0.00	0.00	1.32	0.62
10070	10060	10070	990.89	0.20	0.00	0.00	1.25	0.56
10080	10070	10080	861.87	0.06	0.00	0.00	1.09	0.43
10090	10080	10090	850.53	0.16	0.00	0.00	1.07	0.42
10100	10090	10100	240.53	0.02	0.00	0.00	0.30	0.04
10110	10100	10110	115.90	0.00	0.00	0.00	0.15	0.01
10115	10110	10115	-9.56	0.00	0.00	0.00	0.01	0.00
10120	10115	10120	50.86	0.00	0.00	0.00	0.06	0.00
10130	10120	10130	2054.44	0.42	0.00	0.00	2.59	2.17
10140	10130	10140	2023.29	0.40	0.00	0.00	2.55	2.11
10150	10140	10150	2003.31	0.36	0.00	0.00	2.53	2.07
10160	10150	10160	1963.04	0.38	0.00	0.00	2.47	2.00
10170	10160	10170	1749.29	0.60	0.00	0.00	2.21	1.61
10180	10170	10180	1737.96	0.59	0.00	0.00	2.19	1.59
10185	10180	10185	1774.27	0.10	0.00	0.00	2.24	1.65
10190	10185	10190	1740.23	1.13	0.00	0.00	2.19	1.60
10195	10190	10195	-70.36	0.00	0.00	0.00	0.09	0.00
10200	10195	90000	-70.36	0.00	0.00	0.00	0.09	0.00
10210	90000	10210	198.17	0.02	0.00	0.00	0.25	0.03
10220	10210	7955	161.96	0.01	0.00	0.00	0.20	0.02
14100	4100	14100	110.30	0.16	0.00	0.00	0.70	0.50
14105	3080	14110	39.68	0.03	0.00	0.00	0.25	0.08
14110	14100	14110	100.68	0.19	0.00	0.00	0.64	0.42
14113	14110	14115	4.81	0.00	0.00	0.00	0.03	0.00
14115	14110	14130	121.13	0.16	0.00	0.00	0.77	0.60
14120	14120	4115	-70.01	0.07	0.00	0.00	0.45	0.22
14130	14120	14130	60.39	0.08	0.00	0.00	0.39	0.16
14133	14130	14135	4.81	0.00	0.00	0.00	0.03	0.00
14135	14130	14150	162.29	0.30	0.00	0.00	1.04	1.02
14140	4130	14140	69.52	0.04	0.00	0.00	0.44	0.21
14150	14150	14140	18.15	0.01	0.00	0.00	0.12	0.02
14155	14150	14170	138.13	0.20	0.00	0.00	0.88	0.76
14160	14140	14160	79.25	0.07	0.00	0.00	0.51	0.27
14170	14160	14170	66.03	0.12	0.00	0.00	0.42	0.19
14175	14170	4266	190.94	0.20	0.00	0.00	1.22	1.38
20500	20500	5	32253.83	0.63	0.00	0.00	5.72	3.00
23000	6000	23000	491.54	0.11	0.00	0.00	0.62	0.15
23010	23000	23010	490.72	0.10	0.00	0.00	0.62	0.15
23020	23010	23020	401.92	0.08	0.00	0.00	0.51	0.11
23030	23020	23030	401.92	0.07	0.00	0.00	0.51	0.11



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
23040	23030	23040	401.92	0.08	0.00	0.00	0.51	0.11
23050	23010	23050	287.96	0.01	0.00	0.00	0.20	0.01
23060	23050	23060	287.96	0.01	0.00	0.00	0.20	0.01
23070	23060	23070	357.16	0.02	0.00	0.00	0.25	0.02
23080	23070	23100	355.70	0.01	0.00	0.00	0.25	0.02
23100	23120	5295	-35.42	0.01	0.00	0.00	0.14	0.02
23110	23100	23110	51.46	0.02	0.00	0.00	0.21	0.04
23120	23110	23120	-30.27	0.01	0.00	0.00	0.12	0.02
23200	5297	23200	1.63	0.00	0.00	0.00	0.00	0.00
23210	23200	23210	1.63	0.00	0.00	0.00	0.00	0.00
23220	23210	23220	1.63	0.00	0.00	0.00	0.00	0.00
23230	23220	23070	1.63	0.00	0.00	0.00	0.00	0.00
23235	23070	23230	-7.01	0.00	0.00	0.00	0.02	0.00
23240	23230	23240	-17.11	0.00	0.00	0.00	0.05	0.00
23400	5265	23400	98.33	0.02	0.00	0.00	0.28	0.06
23410	23400	23410	98.33	0.02	0.00	0.00	0.28	0.06
23420	23410	23420	98.33	0.02	0.00	0.00	0.28	0.06
23430	23420	23060	98.33	0.02	0.00	0.00	0.28	0.06
23445	23240	23540	-29.13	0.00	0.00	0.00	0.08	0.01
23500	23060	23500	29.13	0.00	0.00	0.00	0.08	0.01
23510	23500	23510	29.13	0.00	0.00	0.00	0.08	0.01
23520	23510	23520	29.13	0.00	0.00	0.00	0.08	0.01
23530	23520	23530	29.13	0.00	0.00	0.00	0.08	0.01
23540	23530	23540	29.13	0.00	0.00	0.00	0.08	0.01
23550	23540	23550	0.00	0.00	0.00	0.00	0.00	0.00
24000	10	24000	495.22	44.29	0.00	0.00	3.16	8.08
39000	2430	39000	590.61	2.04	0.00	0.00	1.68	1.55
39005	39000	230	590.61	1.76	0.00	0.00	1.68	1.55
39010	70030	39010	-247.25	0.26	0.00	0.00	0.70	0.31
39020	39010	39020	-247.25	0.23	0.00	0.00	0.70	0.31
39030	39020	9440	-247.25	0.24	0.00	0.00	0.70	0.31
39040	70010	39040	440.08	0.71	0.00	0.00	1.25	0.90
39045	39040	9400	440.08	0.71	0.00	0.00	1.25	0.90
39200	70050	39200	434.37	1.11	0.00	0.00	1.23	0.88
39210	39200	39210	434.37	1.16	0.00	0.00	1.23	0.88
39215	39210	70080	434.37	1.16	0.00	0.00	1.23	0.88
40000	220	40000	5630.23	1.65	0.00	0.00	2.56	1.17
40010	40000	40010	5519.64	1.42	0.00	0.00	2.51	1.13
40020	40010	40020	4908.26	1.12	0.00	0.00	2.75	1.51
40030	40020	40030	4700.55	0.85	0.00	0.00	2.63	1.40
40035	40030	2230	4231.10	0.14	0.00	0.00	2.37	1.15
40040	40030	40040	253.09	0.39	0.00	0.00	0.72	0.32
40050	40040	40050	97.32	0.06	0.00	0.00	0.28	0.06



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
40060	2230	40060	5883.12	1.30	0.00	0.00	3.30	2.12
40070	40060	40070	5883.12	0.84	0.00	0.00	3.30	2.12
40080	40070	40080	5883.12	0.50	0.00	0.00	3.30	2.12
40090	40080	3040	5883.12	2.43	0.00	0.00	3.30	2.12
40100	40010	40100	457.53	1.18	0.00	0.00	1.30	0.97
40110	40100	40110	421.95	0.96	0.00	0.00	1.20	0.83
40115	40110	40115	228.87	0.18	0.00	0.00	0.65	0.27
40120	40110	40120	135.38	0.15	0.00	0.00	0.38	0.10
40130	40120	40130	112.78	0.10	0.00	0.00	0.32	0.07
40140	40130	40140	90.19	0.03	0.00	0.00	0.26	0.05
40150	40140	40150	67.59	0.02	0.00	0.00	0.19	0.03
40160	40150	40160	9.89	0.00	0.00	0.00	0.03	0.00
40170	40160	40050	-47.80	0.02	0.00	0.00	0.14	0.01
40180	40115	40050	171.17	0.11	0.00	0.00	0.49	0.16
41000	220	41000	-373.45	0.12	0.00	0.00	0.47	0.09
41010	41000	41010	-589.81	0.27	0.00	0.00	0.74	0.22
41020	41010	41020	-871.16	0.58	0.00	0.00	1.10	0.44
41025	41020	41025	-1015.40	0.84	0.00	0.00	1.28	0.59
41027	41057	41025	-393.96	0.94	0.00	0.00	1.12	0.73
41028	41025	41028	-1838.46	2.21	0.00	0.00	2.32	1.77
41029	41028	10	-2126.94	3.22	0.00	0.00	2.68	2.32
41030	41010	41030	137.10	0.13	0.00	0.00	0.39	0.10
41040	41030	41040	56.33	0.03	0.00	0.00	0.16	0.02
41050	41040	41050	-24.44	0.01	0.00	0.00	0.07	0.00
41055	41050	41055	-105.22	0.09	0.00	0.00	0.30	0.06
41057	41055	41057	-268.96	0.53	0.00	0.00	0.76	0.36
41065	41025	41060	203.12	0.03	0.00	0.00	0.26	0.03
41070	41060	41070	122.34	0.02	0.00	0.00	0.15	0.01
41080	41070	41080	-769.11	0.44	0.00	0.00	0.97	0.35
41085	41080	70010	-898.93	0.61	0.00	0.00	1.13	0.47
41090	41055	41090	38.73	0.01	0.00	0.00	0.11	0.01
41100	41090	41100	-6.47	0.00	0.00	0.00	0.02	0.00
41110	41100	41110	-284.28	0.57	0.00	0.00	0.81	0.40
41115	41110	41070	-368.42	0.86	0.00	0.00	1.05	0.65
41120	41070	41120	409.56	0.99	0.00	0.00	1.16	0.79
41130	41120	41130	351.86	0.80	0.00	0.00	1.00	0.60
41140	41100	41140	193.68	0.24	0.00	0.00	0.55	0.20
41150	41140	41150	154.73	0.18	0.00	0.00	0.44	0.13
41160	41150	41160	31.65	0.01	0.00	0.00	0.09	0.01
41165	41160	41130	-91.44	0.06	0.00	0.00	0.26	0.05
41170	41130	41170	146.96	0.15	0.00	0.00	0.42	0.12
41175	41170	70030	23.87	0.01	0.00	0.00	0.07	0.00
50000	3040	50020	3519.71	3.68	0.00	0.00	2.50	1.45





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
50010	50010	50020	-394.19	0.49	0.00	0.00	1.12	0.74
50020	50020	50030	3025.25	0.76	0.00	0.00	2.15	1.10
50030	50030	50040	2973.32	0.70	0.00	0.00	2.11	1.06
50040	50040	50050	2937.19	1.56	0.00	0.00	2.08	1.04
50050	50050	50060	2784.78	1.09	0.00	0.00	1.97	0.94
50060	50060	50070	2678.10	1.30	0.00	0.00	1.90	0.87
50065	50060	980	-321.54	0.18	0.00	0.00	0.91	0.50
50070	50070	50080	2490.59	1.04	0.00	0.00	1.77	0.76
50080	50080	50090	2072.60	0.76	0.00	0.00	1.47	0.54
50090	50090	50100	1837.01	0.53	0.00	0.00	1.30	0.43
50100	50100	50110	1324.90	0.32	0.00	0.00	0.94	0.24
50110	50110	50120	1123.93	0.23	0.00	0.00	0.80	0.18
50120	50120	50130	471.78	0.04	0.00	0.00	0.33	0.04
50130	50130	23010	199.16	0.01	0.00	0.00	0.14	0.01
51000	50010	51000	238.42	0.41	0.00	0.00	0.68	0.29
51010	51000	51010	202.84	0.29	0.00	0.00	0.58	0.21
51015	51010	51030	167.26	0.10	0.00	0.00	0.47	0.15
51020	50020	51020	333.24	0.77	0.00	0.00	0.95	0.54
51025	50020	3060	-443.56	0.91	0.00	0.00	1.26	0.91
51030	51020	51030	275.54	0.52	0.00	0.00	0.78	0.38
51035	51030	51040	385.10	0.49	0.00	0.00	1.09	0.70
51045	51040	51060	362.50	0.41	0.00	0.00	1.03	0.63
51050	50040	51050	255.74	0.47	0.00	0.00	0.73	0.33
51055	50040	3080	-423.95	0.51	0.00	0.00	1.20	0.84
51060	51050	51060	188.43	0.26	0.00	0.00	0.53	0.19
51070	51060	51070	483.62	1.61	0.00	0.00	1.37	1.07
51075	51070	51090	438.42	1.04	0.00	0.00	1.24	0.90
51080	50060	51080	285.43	0.58	0.00	0.00	0.81	0.40
51090	51080	51090	142.63	0.16	0.00	0.00	0.40	0.11
51095	51090	51100	438.25	1.34	0.00	0.00	1.24	0.89
51100	51120	51110	100.10	0.08	0.00	0.00	0.28	0.06
51105	51100	51110	342.09	0.77	0.00	0.00	0.97	0.57
51115	51110	51130	299.40	0.61	0.00	0.00	0.85	0.44
51120	50080	51120	242.90	0.43	0.00	0.00	0.69	0.30
51125	50080	5050	-149.46	0.30	0.00	0.00	0.42	0.12
51135	51130	51150	257.57	0.41	0.00	0.00	0.73	0.33
51140	50100	51140	160.39	0.19	0.00	0.00	0.45	0.14
51145	50100	5080	27.18	0.01	0.00	0.00	0.08	0.01
51150	51140	51150	69.52	0.04	0.00	0.00	0.20	0.03
51160	51150	51160	236.21	0.38	0.00	0.00	0.67	0.28
51165	51160	51180	145.34	0.15	0.00	0.00	0.41	0.12
51170	50120	51170	157.58	0.19	0.00	0.00	0.45	0.13
51180	51170	51180	63.82	0.04	0.00	0.00	0.18	0.03



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
51190	50120	51190	202.73	0.27	0.00	0.00	0.58	0.21
51200	51190	51200	106.57	0.09	0.00	0.00	0.30	0.07
51210	51200	51210	20.18	0.00	0.00	0.00	0.06	0.00
51220	51210	51220	-25.02	0.01	0.00	0.00	0.07	0.00
51230	51180	51230	115.41	0.10	0.00	0.00	0.33	0.08
51235	51230	51220	70.21	0.04	0.00	0.00	0.20	0.03
52000	51200	52000	-9.77	0.00	0.00	0.00	0.03	0.00
52010	52000	52010	-61.69	0.03	0.00	0.00	0.18	0.02
52015	52010	23040	-400.12	0.06	0.00	0.00	0.50	0.10
60000	5	210	5906.35	4.60	0.00	0.00	4.19	3.78
60005	210	220	6007.81	5.40	0.00	0.00	4.26	3.90
60010	220	230	2390.48	1.06	0.00	0.00	1.70	0.71
70000	10	70000	10768.48	2.08	0.00	0.00	3.39	1.60
70010	70000	70010	10595.39	2.35	***±± Ä			
70020	70010	70020	9011.18	1.48	0.00	0.00	*Gáz *?*p=*	
70030	70020	70030	8863.57	1.51	0.00	0.00	2.79	R*
70040	70030	70040	8810.15	1.34	0.00	0.00	2.78	1
70050	70040	70050	8576.49	1.34	0.00	0.00	2.70	1
70060	70050	70060	7882.49	1.18	0.00	0.00	2.48	0
70070	70060	70070	7827.68	1.16	0.00	0.00	2.47	0
70080	70070	70080	7772.87	1.09	0.00	0.00	2.45	0
70090	70080	70090	8010.10	0.99	0.00	0.00	2.52	0
70100	70090	70100	8010.10	0.40	0.00	0.00	2.52	0
70110	70100	70110	8010.10	1.08	0.00	0.00	2.52	0
70115	70110	70115	516.90	1.60	0.00	0.00	1.47	1
70118	70115	9910	300.54	0.59	0.00	0.00	0.85	0.44
70120	70110	70120	6663.23	0.91	0.00	0.00	2.10	0.66
70130	70120	70130	4152.22	1.49	0.00	0.00	2.33	1.11
70140	70130	70140	4012.79	1.37	0.00	0.00	2.25	1.04
70150	70140	70150	2318.73	0.51	0.00	0.00	1.30	0.38
70160	70150	70200	2131.22	0.42	0.00	0.00	1.19	0.32
72000	70200	10120	1599.73	0.50	0.00	0.00	0.90	0.19
74000	70120	74000	1281.75	1.27	0.00	0.00	1.62	0.91
74005	70120	74005	988.86	0.76	0.00	0.00	1.25	0.56
74008	74005	9140	820.58	0.52	0.00	0.00	1.03	0.40
74010	74000	74010	1214.44	1.01	0.00	0.00	1.53	0.82
74015	74010	74115	319.94	0.67	0.00	0.00	0.91	0.50
74020	74010	74020	786.84	0.46	0.00	0.00	0.99	0.37
74030	74020	74030	719.52	0.43	0.00	0.00	0.91	0.31
74035	74030	74095	148.41	0.16	0.00	0.00	0.42	0.12
74040	74030	74040	411.16	0.15	0.00	0.00	0.52	0.11
74050	74040	74050	343.85	0.10	0.00	0.00	0.43	0.08
74060	74050	74060	242.80	0.06	0.00	0.00	0.31	0.04



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
74070	74060	74070	203.85	0.04	0.00	0.00	0.26	0.03
74080	74070	74080	-95.83	0.01	0.00	0.00	0.12	0.01
74090	74080	74090	-95.83	0.01	0.00	0.00	0.12	0.01
74095	74090	74095	-148.41	0.16	0.00	0.00	0.42	0.12
74100	74090	74100	-256.06	0.06	0.00	0.00	0.32	0.05
74110	74100	74110	-327.22	0.09	0.00	0.00	0.41	0.07
74115	74110	74115	-239.17	0.38	0.00	0.00	0.68	0.29
74120	74110	74120	-489.90	0.19	0.00	0.00	0.62	0.15
74130	74120	70140	-570.68	0.28	0.00	0.00	0.72	0.20
74200	70110	74200	559.76	1.97	0.00	0.00	1.59	1.41
74210	74200	74210	463.60	1.21	0.00	0.00	1.32	0.99
74215	74210	74010	28.41	0.01	0.00	0.00	0.08	0.01
74220	74210	74220	312.11	0.61	0.00	0.00	0.89	0.48
74230	74220	74230	214.99	0.33	0.00	0.00	0.61	0.24
74235	74230	74030	-68.60	0.04	0.00	0.00	0.19	0.03
74240	74230	74240	160.50	0.18	0.00	0.00	0.46	0.14
74250	74240	74250	63.38	0.03	0.00	0.00	0.18	0.02
74255	74250	74050	-33.74	0.01	0.00	0.00	0.10	0.01
74300	70140	74300	863.75	0.65	0.00	0.00	1.09	0.44
74310	74300	74310	175.48	0.23	0.00	0.00	0.50	0.16
74320	74310	74320	113.93	0.09	0.00	0.00	0.32	0.07
74325	74320	74110	-257.61	0.50	0.00	0.00	0.73	0.33
74330	74320	74330	97.33	0.07	0.00	0.00	0.28	0.06
74340	74330	74340	39.63	0.01	0.00	0.00	0.11	0.01
74345	74340	74090	-237.48	0.43	0.00	0.00	0.67	0.29
74350	74340	74350	25.33	0.01	0.00	0.00	0.07	0.00
74360	74350	74360	-45.82	0.02	0.00	0.00	0.13	0.01
74365	74360	74070	-228.53	0.40	0.00	0.00	0.65	0.27
74500	74320	74500	151.13	0.13	0.00	0.00	0.43	0.12
74510	74500	74510	93.44	0.07	0.00	0.00	0.27	0.05
74520	74510	74520	35.74	0.01	0.00	0.00	0.10	0.01
74525	74520	74570	-86.86	0.05	0.00	0.00	0.25	0.04
74530	74520	74530	18.75	0.00	0.00	0.00	0.05	0.00
74540	74530	74540	-23.08	0.01	0.00	0.00	0.07	0.00
74550	74540	74550	-69.71	0.06	0.00	0.00	0.20	0.03
74555	74550	74360	-111.54	0.08	0.00	0.00	0.32	0.07
74575	74570	74340	-115.71	0.08	0.00	0.00	0.33	0.08
74600	74300	74600	529.61	0.98	0.00	0.00	1.50	1.27
74610	74600	74610	334.88	0.74	0.00	0.00	0.95	0.54
74615	74610	9030	171.41	0.20	0.00	0.00	0.49	0.16
76000	9920	76000	304.22	0.57	0.00	0.00	0.86	0.46
76010	76000	76010	44.59	0.01	0.00	0.00	0.13	0.01
76015	76010	9180	-215.04	0.17	0.00	0.00	0.61	0.24





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## P I P E L I N E R E S U L T S

PIPE NUMBER	NODE #1	NODE #2	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE VELO.	HL/ 1000
80000	80000	80010	15.76	0.00	0.00	0.00	0.01	0.00
80005	23100	80000	304.24	0.01	0.00	0.00	0.22	0.02
80010	80010	80020	-555.00	0.06	0.00	0.00	0.39	0.05
80020	80020	80030	-858.00	0.14	0.00	0.00	0.61	0.11
80030	80030	80040	-1007.05	0.20	0.00	0.00	0.71	0.14
80040	80040	80050	-1305.75	0.30	0.00	0.00	0.93	0.23
80050	80050	80060	-1474.03	0.38	0.00	0.00	1.05	0.29
80060	80060	80070	-1704.82	0.47	0.00	0.00	1.21	0.38
80070	80070	80080	-1810.59	0.59	0.00	0.00	1.28	0.42
80080	80080	80090	-2277.81	0.88	0.00	0.00	1.62	0.65
80090	80090	80100	-2277.81	0.38	0.00	0.00	1.62	0.65
80100	80100	10190	-2277.81	0.94	0.00	0.00	1.62	0.65
80200	52010	80200	195.63	0.09	0.00	0.00	0.36	0.07
80210	80200	80210	20.62	0.00	0.00	0.00	0.04	0.00
80220	80210	80220	-63.52	0.01	0.00	0.00	0.12	0.01
80230	80220	80230	-186.12	0.08	0.00	0.00	0.34	0.06
80235	80230	80010	-325.55	0.23	0.00	0.00	0.59	0.17
80300	80020	80300	122.70	0.11	0.00	0.00	0.35	0.08
80305	80300	750	-33.08	0.01	0.00	0.00	0.09	0.01
80400	80220	80400	-16.83	0.00	0.00	0.00	0.05	0.00
80410	80400	80410	-68.76	0.04	0.00	0.00	0.20	0.03
80420	80410	80420	-120.69	0.12	0.00	0.00	0.34	0.08
80430	80420	80430	-172.61	0.21	0.00	0.00	0.49	0.16
80440	80430	80040	-224.54	0.34	0.00	0.00	0.64	0.26
80500	80040	80500	-127.77	0.11	0.00	0.00	0.36	0.09
80510	80500	80510	-205.66	0.31	0.00	0.00	0.58	0.22
80520	80510	80520	-283.55	0.53	0.00	0.00	0.80	0.40
80525	80520	80080	-361.44	0.81	0.00	0.00	1.03	0.63





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5		0.00	216.32	67.50	148.82	64.49
10		0.00	213.55	67.50	146.05	63.29
15		0.00	209.97	66.50	143.47	62.17
20		0.00	206.80	66.50	140.30	60.80
30		0.00	204.04	64.00	140.04	60.68
40		0.00	203.20	62.50	140.70	60.97
50		7.45	202.78	61.00	141.78	61.44
60		9.14	200.71	60.50	140.21	60.76
70		9.14	199.12	60.00	139.12	60.29
80		0.77	196.81	58.00	138.81	60.15
90		8.75	195.89	57.50	138.39	59.97
100		13.32	195.54	57.00	138.54	60.03
210		0.00	211.72	68.50	143.22	62.06
220		0.00	206.32	68.50	137.82	59.72
230		0.00	205.27	67.00	138.27	59.92
240		0.00	202.32	66.00	136.32	59.07
250		0.00	199.10	64.50	134.60	58.33
260		99.24	196.85	64.00	132.85	57.57
270		14.42	196.22	63.00	133.22	57.73
280		0.00	195.85	62.50	133.35	57.78
300		29.09	194.97	62.00	132.97	57.62
305		17.02	194.25	61.00	133.25	57.74
310		17.69	193.95	60.50	133.45	57.83
315		19.23	193.68	60.00	133.68	57.93
320		24.52	193.97	59.50	134.47	58.27
325		33.90	194.62	58.50	136.12	58.99
330		22.21	195.13	58.00	137.13	59.42
335		8.75	195.31	57.80	137.51	59.59
400		15.10	192.85	59.50	133.35	57.79
405		15.05	192.12	59.00	133.12	57.69
410		15.05	191.43	59.00	132.43	57.39
415		24.23	191.05	58.50	132.55	57.44
420		15.05	190.19	58.00	132.19	57.28
425		29.38	189.58	57.50	132.08	57.24
430		0.00	189.22	57.50	131.72	57.08
435		13.51	188.93	57.00	131.93	57.17
440		6.78	188.42	56.00	132.42	57.38
445		3.85	188.15	55.80	132.35	57.35
450		26.68	187.93	55.80	132.13	57.25
455		26.44	187.52	55.60	131.92	57.16
457		14.57	187.58	55.20	132.38	57.37
459		25.92	187.74	53.80	133.94	58.04
460	9TH & BROA	0.00	187.85	53.50	134.35	58.22



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
465	9TH & BROA	25.00	187.90	52.70	135.20	58.59
470		8.22	188.21	52.50	135.71	58.81
475		2.84	188.43	52.80	135.63	58.77
480		1.78	188.70	53.30	135.40	58.67
485		13.99	188.86	53.50	135.36	58.65
490		38.56	189.87	53.80	136.07	58.96
495		32.89	191.08	54.00	137.08	59.40
500		19.66	192.28	54.80	137.48	59.57
505		28.66	193.09	55.70	137.39	59.53
510		23.13	194.16	56.40	137.76	59.69
600		13.51	186.94	55.50	131.44	56.96
605		23.80	186.59	55.30	131.29	56.89
610		48.85	185.69	55.00	130.69	56.63
615		15.05	185.21	54.00	131.21	56.86
620		16.20	184.75	53.00	131.75	57.09
625		11.25	184.60	52.00	132.60	57.46
630		3.37	184.46	51.80	132.66	57.49
635		3.37	184.37	51.70	132.67	57.49
640		4.81	184.29	51.50	132.79	57.54
645		82.36	184.26	51.50	132.76	57.53
650		0.00	184.24	51.40	132.84	57.57
655		19.28	184.23	51.30	132.93	57.60
660		17.45	184.18	51.00	133.18	57.71
700		31.01	187.37	52.50	134.87	58.45
705		13.65	186.62	52.20	134.42	58.25
710		16.88	185.49	51.70	133.79	57.98
715		13.94	185.27	51.40	133.87	58.01
720		37.79	184.89	51.20	133.69	57.93
725		20.24	184.64	50.80	133.84	58.00
730		33.42	184.30	50.60	133.70	57.94
735		37.60	184.17	50.40	133.77	57.97
740		34.76	184.08	50.20	133.88	58.02
745		17.45	184.01	50.20	133.81	57.99
750		0.00	183.98	49.80	134.18	58.14
800		13.61	192.18	60.50	131.68	57.06
810		25.05	191.59	61.80	129.79	56.24
820		14.42	191.24	63.00	128.24	55.57
830		14.42	191.05	63.40	127.65	55.31
840		8.41	190.69	63.60	127.09	55.07
850		0.00	190.17	63.00	127.17	55.11
860		13.70	190.70	63.60	127.10	55.08
870		4.81	191.36	60.70	130.66	56.62
880		12.84	191.86	60.00	131.86	57.14



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
890		12.84	192.55	59.70	132.85	57.57
900		15.05	190.17	59.00	131.17	56.84
910		49.43	190.15	59.80	130.35	56.49
920		36.59	189.77	60.30	129.47	56.10
935		5.39	189.44	61.70	127.74	55.36
940		5.39	189.26	62.00	127.26	55.14
950		11.44	189.06	62.50	126.56	54.84
960		12.40	188.81	63.00	125.81	54.52
970		17.65	188.61	63.50	125.11	54.22
980		5.29	188.48	63.50	124.98	54.16
1000		29.76	197.01	63.00	134.01	58.07
1010		31.54	197.32	62.00	135.32	58.64
1015		14.57	199.12	61.60	137.52	59.59
1030		4.81	197.33	64.20	133.13	57.69
1040		16.92	197.27	64.00	133.27	57.75
1050		16.35	197.24	63.00	134.24	58.17
1060		20.34	197.28	62.90	134.38	58.23
1070		21.40	197.79	62.40	135.39	58.67
1080		19.52	199.26	62.00	137.26	59.48
1090		14.57	199.17	62.00	137.17	59.44
1100		9.33	197.13	63.00	134.13	58.12
1110		13.46	197.25	62.60	134.65	58.35
1150		17.55	197.18	64.20	132.98	57.62
1155		13.13	197.18	63.80	133.38	57.80
1160		16.97	197.20	63.50	133.70	57.94
1170		9.33	197.15	64.30	132.85	57.57
1175		4.95	197.14	64.00	133.14	57.70
1180		4.95	197.15	63.80	133.35	57.78
1185		8.75	197.19	63.60	133.59	57.89
1200		17.07	197.26	63.00	134.26	58.18
1205		13.08	197.19	63.60	133.59	57.89
1210		18.17	197.35	62.80	134.55	58.31
1220		14.18	197.20	63.80	133.40	57.81
1225		9.23	197.19	63.50	133.69	57.93
1240		9.86	197.14	64.30	132.84	57.57
1245		9.86	197.14	64.00	133.14	57.69
1250		9.86	197.15	63.80	133.35	57.78
1255		9.86	197.18	63.60	133.58	57.89
1260		8.41	197.19	63.50	133.69	57.93
1265		11.64	197.18	63.40	133.78	57.97
1270		11.64	197.19	63.30	133.89	58.02
1275		37.65	198.05	63.50	134.55	58.31
1300		22.36	195.94	62.30	133.64	57.91





CITY OF EL CENTRO WATER MASTER PLAS UPDATE  
JUNCTION NODE RESULTS

RUN-8

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1305		30.48	196.73	61.50	135.23	58.60
1310		0.00	195.85	62.00	133.85	58.00
1315		18.27	195.78	63.00	132.78	57.54
1320		26.40	195.79	61.20	134.59	58.32
1325		9.14	195.04	61.10	133.94	58.04
1330		15.34	195.09	61.00	134.09	58.10
1335		30.19	195.56	60.90	134.66	58.35
1350		17.50	196.47	60.80	135.67	58.79
1360		163.47	190.39	60.80	129.59	56.16
1365		163.47	188.10	61.20	126.90	54.99
1370		163.47	189.25	60.60	128.65	55.75
1400		17.79	194.87	60.20	134.67	58.36
1403		13.70	194.53	59.80	134.73	58.38
1405		18.51	195.01	60.70	134.31	58.20
1420		9.62	195.06	59.80	135.26	58.61
1425		15.39	195.18	59.50	135.68	58.80
1430		10.10	195.39	59.20	136.19	59.01
1435		27.89	195.45	60.00	135.45	58.70
1440		13.46	195.70	60.00	135.70	58.80
1445		9.14	195.08	59.40	135.68	58.79
1450		6.73	195.37	59.10	136.27	59.05
1455		9.62	194.71	59.00	135.71	58.81
1460		13.94	194.87	59.00	135.87	58.88
1465		6.73	195.14	58.70	136.44	59.12
1470		9.14	194.72	58.50	136.22	59.03
1475		0.00	195.10	58.00	137.10	59.41
1540		34.38	195.60	58.80	136.80	59.28
1600		8.80	192.86	59.20	133.66	57.92
1605		17.45	192.90	58.30	134.60	58.33
1610		9.18	192.42	57.20	135.22	58.60
1615		8.65	192.70	57.40	135.30	58.63
1620		0.00	192.63	56.80	135.83	58.86
1625		22.12	192.87	56.80	136.07	58.96
1630		22.12	193.46	57.50	135.96	58.91
1635		15.53	194.32	58.20	136.12	58.99
1640		7.21	192.77	56.50	136.27	59.05
1645		13.46	193.04	56.80	136.24	59.04
1647		6.92	193.64	56.80	136.84	59.30
1650		13.46	193.84	57.20	136.64	59.21
1653		6.78	194.53	57.50	137.03	59.38
1655		6.73	194.67	57.80	136.87	59.31
1700		30.19	191.04	56.00	135.04	58.52
1702		59.67	191.48	56.30	135.18	58.58



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
1705		14.47	192.54	56.00	136.54	59.17
1750		35.58	188.93	56.00	132.93	57.60
1755		35.96	189.25	54.70	134.55	58.31
1770		12.12	188.37	55.40	132.97	57.62
1775		21.16	188.38	54.30	134.08	58.10
1780		17.45	188.53	54.00	134.53	58.30
1790		3.85	188.31	55.00	133.31	57.77
1800		46.16	188.09	53.80	134.29	58.19
1805		45.29	188.42	53.40	135.02	58.51
1880		1.30	186.59	55.00	131.59	57.02
1900		27.89	185.69	53.60	132.09	57.24
1905		13.13	185.21	53.00	132.21	57.29
1910		15.15	184.76	52.50	132.26	57.31
1915		11.54	184.60	51.80	132.80	57.55
1920		21.30	184.29	51.50	132.79	57.54
1925		11.30	184.29	51.50	132.79	57.54
1930		10.00	184.26	51.50	132.76	57.53
1935		22.74	187.29	53.00	134.29	58.19
1940		36.78	186.35	52.80	133.55	57.87
1945		11.06	185.81	52.80	133.01	57.64
1950		23.80	185.24	52.50	132.74	57.52
1955		29.57	184.84	52.00	132.84	57.57
1960		24.76	184.62	51.50	133.12	57.68
1965		35.72	184.30	51.30	133.00	57.63
1970		29.28	184.25	51.20	133.05	57.65
1975		16.54	187.32	52.70	134.62	58.34
1980		27.02	186.38	52.40	133.98	58.06
1982		4.23	185.45	52.20	133.25	57.74
1985		10.10	185.45	52.20	133.25	57.74
1990		19.66	185.24	52.00	133.24	57.74
1995		24.28	184.86	51.50	133.36	57.79
2000		12.60	184.65	51.00	133.65	57.91
2005		17.45	184.29	51.00	133.29	57.76
2010		17.45	184.18	51.00	133.18	57.71
2015		17.45	184.11	51.00	133.11	57.68
2020		17.45	184.05	51.00	133.05	57.66
2200		0.00	204.04	67.50	136.54	59.17
2210		0.00	202.65	67.50	135.15	58.56
2220		0.00	201.95	67.50	134.45	58.26
2230		0.00	201.15	67.50	133.65	57.92
2300		9.38	201.90	67.50	134.40	58.24
2310		6.49	201.90	67.50	134.40	58.24
2320		2.88	201.90	67.50	134.40	58.24



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
2330		9.38	201.87	67.50	134.37	58.23
2340		6.49	201.87	67.35	134.52	58.29
2350		2.88	201.87	67.50	134.37	58.23
2360		14.18	201.86	67.50	134.36	58.22
2370		6.49	201.86	67.50	134.36	58.22
2380		2.88	201.86	67.00	134.86	58.44
2400		0.00	208.43	65.00	143.43	62.15
2410		0.00	208.78	65.00	143.78	62.30
2420		0.00	209.09	65.50	143.59	62.22
2430		14.42	209.06	65.50	143.56	62.21
2440		14.42	209.41	66.00	143.41	62.14
2450		14.42	209.39	66.00	143.39	62.14
2460		14.42	209.39	66.00	143.39	62.13
2470		14.42	209.39	66.00	143.39	62.13
3000		16.01	194.48	62.70	131.78	57.11
3005		10.96	194.32	63.00	131.32	56.90
3010		18.51	194.00	63.80	130.20	56.42
3015		11.40	193.80	64.10	129.70	56.21
3020		16.20	193.68	65.10	128.58	55.72
3025		4.81	193.61	66.00	127.61	55.30
3030		17.36	194.94	66.20	128.74	55.79
3035		0.00	195.57	66.60	128.97	55.89
3040		0.00	196.09	66.80	129.29	56.02
3045		8.17	194.88	67.00	127.88	55.41
3050		0.00	194.22	67.30	126.92	55.00
3055	23RD & OCO	17.31	193.73	67.50	126.23	54.70
3060		12.93	193.32	68.00	125.32	54.30
3065		7.21	192.97	66.60	126.37	54.76
3070		19.23	192.46	66.50	125.96	54.58
3075		9.62	191.72	67.00	124.72	54.05
3080		0.00	191.46	67.00	124.46	53.93
3100		0.00	195.11	63.00	132.11	57.25
3105		0.77	195.11	63.00	132.11	57.25
3110		3.85	195.26	63.50	131.76	57.09
3115		5.77	195.43	64.00	131.43	56.95
3130		25.24	195.39	64.50	130.89	56.72
3140		13.94	195.14	65.10	130.04	56.35
3145		13.94	195.04	65.30	129.74	56.22
3147		14.42	195.04	65.50	129.54	56.14
3150		25.24	195.11	65.50	129.61	56.16
3200		10.00	194.80	66.00	128.80	55.81
3205		25.58	194.75	66.40	128.35	55.62
3210		0.00	194.75	66.50	128.25	55.58





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3215		20.91	194.74	67.00	127.74	55.35
3220		5.72	194.73	67.20	127.53	55.27
3225		18.17	194.85	65.90	128.95	55.88
3230		27.79	194.77	66.30	128.47	55.67
3235		20.91	194.74	66.80	127.94	55.44
3240		5.72	194.74	67.00	127.74	55.35
3245		15.34	194.82	65.00	129.82	56.26
3247		9.52	194.79	65.30	129.49	56.11
3250		27.41	194.76	65.90	128.86	55.84
3252		24.71	194.76	66.10	128.66	55.75
3255		22.79	194.82	66.60	128.22	55.56
3257		20.91	194.76	66.70	128.06	55.49
3259		5.72	194.76	66.90	127.86	55.41
3260		15.77	194.29	63.50	130.79	56.68
3262		4.23	194.29	63.40	130.89	56.72
3265		15.77	194.40	64.20	130.20	56.42
3267		4.23	194.40	64.10	130.30	56.47
3270		15.39	194.84	64.40	130.44	56.52
3275		15.77	194.74	64.60	130.14	56.40
3277		4.23	194.74	64.50	130.24	56.44
3280		11.54	194.69	65.50	129.19	55.98
3285		11.54	194.60	65.10	129.50	56.12
3290		40.58	194.31	64.80	129.51	56.12
3295		31.25	194.10	64.30	129.80	56.25
3300		19.71	193.88	65.90	127.98	55.46
3305		12.84	194.00	66.20	127.80	55.38
3310		6.25	194.00	66.30	127.70	55.34
3315		12.84	194.21	66.30	127.91	55.43
3320		6.25	194.21	66.40	127.81	55.38
3325		12.84	194.46	66.40	128.06	55.49
3330		6.25	194.46	66.50	127.96	55.45
3400		8.41	193.27	64.90	128.37	55.63
3405		4.81	193.27	65.00	128.27	55.58
3410		12.02	192.93	64.40	128.53	55.70
3415		4.81	192.93	64.50	128.43	55.65
3420		8.41	192.20	63.90	128.30	55.60
3425		4.81	192.20	64.00	128.20	55.55
3430		8.41	191.59	63.70	127.89	55.42
3435		4.81	191.59	63.80	127.79	55.38
3440		14.42	191.50	63.10	128.40	55.64
3450		25.05	192.17	62.20	129.97	56.32
3460		13.61	192.92	61.00	131.92	57.17
3470		13.61	193.39	61.30	132.09	57.24





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
3480		25.05	192.96	62.50	130.46	56.53
3490		13.85	192.99	63.50	129.49	56.11
3500		16.25	193.04	64.00	129.04	55.92
3510		15.77	193.32	63.00	130.32	56.47
3520		21.06	193.94	62.00	131.94	57.17
3530		19.71	193.95	62.30	131.65	57.05
3540		27.07	193.53	63.30	130.23	56.43
3550		14.42	193.14	64.20	128.94	55.87
3600		15.05	191.71	60.20	131.51	56.99
3605		19.23	191.37	61.10	130.27	56.45
3610		15.05	191.21	59.90	131.31	56.90
3615		15.05	191.04	60.60	130.44	56.52
3620		15.05	190.80	59.50	131.30	56.90
3625		15.05	190.64	60.10	130.54	56.57
3630		15.05	189.28	58.70	130.58	56.59
3635		36.73	189.13	59.30	129.83	56.26
3640		0.00	189.09	58.30	130.79	56.67
3643		0.00	189.00	58.90	130.10	56.37
3645		5.48	188.95	59.00	129.95	56.31
3650		6.20	188.41	56.30	132.11	57.25
3660		0.00	189.00	58.30	130.70	56.63
3665		34.52	188.36	58.50	129.86	56.27
3670		0.00	189.00	58.30	130.70	56.63
3675		0.00	188.16	58.30	129.86	56.27
3680		0.00	189.00	58.00	131.00	56.76
3685		10.63	188.59	60.00	128.59	55.72
3690		0.00	189.00	57.80	131.20	56.85
3695		27.26	188.33	59.70	128.63	55.74
3697		26.97	188.33	59.20	129.13	55.96
3698		0.00	188.12	59.20	128.92	55.86
4000		21.44	193.85	67.20	126.65	54.88
4010		18.41	193.29	67.00	126.29	54.73
4020		18.41	192.91	67.00	125.91	54.56
4030		22.12	193.00	67.30	125.70	54.47
4040		12.69	193.14	67.30	125.84	54.53
4050		9.18	193.79	67.30	126.49	54.81
4060		14.28	193.76	67.40	126.36	54.75
4070		26.49	193.73	67.20	126.53	54.83
4080		9.62	193.73	67.20	126.53	54.83
4100		9.62	191.79	66.50	125.29	54.29
4105		22.45	191.91	66.10	125.81	54.52
4110		12.84	192.18	66.00	126.18	54.68
4115		9.62	191.42	66.00	125.42	54.35



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4120		22.45	191.47	65.80	125.67	54.46
4125		12.84	191.63	65.00	126.63	54.87
4130		4.81	191.00	65.80	125.20	54.25
4135		17.79	191.04	65.50	125.54	54.40
4140		11.54	191.13	65.30	125.83	54.52
4145		11.54	191.26	65.00	126.26	54.71
4150		6.73	191.13	65.00	126.13	54.65
4155		6.73	191.26	64.60	126.66	54.88
4200		10.72	190.08	63.80	126.28	54.72
4205		10.72	189.67	63.20	126.47	54.81
4210		10.72	189.47	61.90	127.57	55.28
4220		13.70	190.49	64.00	126.49	54.81
4225		35.58	190.37	64.30	126.07	54.63
4230		10.72	190.01	63.50	126.51	54.82
4235		22.89	189.97	63.80	126.17	54.68
4240		10.72	189.62	63.00	126.62	54.87
4245		22.89	189.59	63.50	126.09	54.64
4250		10.72	189.35	62.70	126.65	54.88
4255		22.84	189.28	63.00	126.28	54.72
4260		13.70	190.35	64.50	125.85	54.53
4265		18.99	190.33	64.80	125.53	54.40
4266		0.00	190.57	65.00	125.57	54.41
4267		4.76	190.33	65.00	125.33	54.31
4270		12.16	189.95	64.00	125.95	54.58
4275		17.45	189.94	64.30	125.64	54.44
4278		5.29	189.94	64.60	125.34	54.31
4280		12.16	189.57	63.60	125.97	54.59
4285		12.16	189.56	63.60	125.96	54.58
4290		12.12	189.19	62.50	126.69	54.90
4295		12.12	189.14	62.50	126.64	54.88
4300		12.74	188.45	62.00	126.45	54.79
4310		12.74	188.23	61.30	126.93	55.00
4320		12.74	188.07	60.50	127.57	55.28
4330		12.74	187.94	60.30	127.64	55.31
4340		18.03	188.43	62.30	126.13	54.65
4350		18.03	188.23	61.60	126.63	54.87
4360		12.74	188.07	61.20	126.87	54.98
4370		12.74	187.94	60.60	127.34	55.18
4380		5.29	188.42	62.50	125.92	54.57
4390		5.29	188.23	61.90	126.33	54.74
4400		8.89	187.90	60.00	127.90	55.42
4410		18.03	187.96	60.00	127.96	55.45
4420		9.14	188.07	60.00	128.07	55.50



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4430		7.21	188.07	60.00	128.07	55.50
4500		30.43	187.92	57.00	130.92	56.73
4510		52.31	187.92	58.00	129.92	56.30
4520		95.29	187.89	59.00	128.89	55.85
4530		13.70	187.86	59.40	128.46	55.67
4540		7.50	187.84	60.30	127.54	55.27
4550		16.40	187.84	60.50	127.34	55.18
4560		7.50	187.84	60.80	127.04	55.05
4570		4.23	187.84	60.00	127.84	55.40
4580	MAIN BTW L	4.23	187.85	60.00	127.85	55.40
4590		4.23	187.85	61.40	126.45	54.79
4600		19.71	186.96	56.30	130.66	56.62
4610		0.00	187.00	57.00	130.00	56.33
4620		0.00	187.05	58.20	128.85	55.83
4700		4.04	185.69	55.20	130.49	56.55
4710		38.94	185.69	55.80	129.89	56.28
4720		34.71	185.78	56.30	129.48	56.11
4730		0.00	185.81	56.80	129.01	55.90
4740		36.11	185.97	57.00	128.97	55.89
4750		9.62	186.04	57.00	129.04	55.92
4800		86.11	184.73	53.20	131.53	57.00
4810		18.03	185.16	54.20	130.96	56.75
4820		0.00	185.42	54.60	130.82	56.69
4830		0.00	185.68	55.20	130.48	56.54
4840		0.00	185.73	56.50	129.23	56.00
4850		0.38	185.16	55.30	129.86	56.27
4870		101.45	184.31	55.00	129.31	56.04
4880		0.00	185.75	56.00	129.75	56.23
4900		70.73	184.46	51.80	132.66	57.48
4910		10.67	184.36	51.70	132.66	57.49
4920		0.00	184.34	51.60	132.74	57.52
4930		1.54	184.28	51.50	132.78	57.54
4940		85.10	184.23	51.30	132.93	57.60
4947		22.60	184.23	51.60	132.63	57.47
4950		2.40	184.32	51.80	132.52	57.43
4955		22.60	184.23	51.90	132.33	57.34
4960		2.40	184.32	52.70	131.62	57.03
4965		7.21	184.31	52.70	131.61	57.03
4970		0.00	184.31	53.70	130.61	56.60
4975		28.37	184.30	54.00	130.30	56.46
4977		10.58	184.30	52.60	131.70	57.07
4980		10.58	184.29	52.30	131.99	57.20
4985		10.58	184.36	52.70	131.66	57.05





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
4990	19TH & VIL	48.27	184.46	53.00	131.46	56.96
4995		0.00	184.24	52.10	132.14	57.26
5000		23.13	189.47	61.70	127.77	55.37
5010		0.00	188.87	61.00	127.87	55.41
5020		0.00	188.33	60.30	128.03	55.48
5030		12.26	187.84	59.80	128.04	55.48
5040		0.00	187.10	58.80	128.30	55.60
5050		0.00	186.26	58.20	128.06	55.49
5060		0.00	185.82	57.40	128.42	55.65
5070		0.00	185.15	55.70	129.45	56.09
5080		0.00	184.66	54.50	130.16	56.40
5090		0.00	184.45	52.20	132.25	57.31
5100		0.00	184.36	53.50	130.86	56.71
5110		11.73	184.30	53.50	130.80	56.68
5120		16.35	184.30	54.00	130.30	56.46
5130		16.35	184.30	55.90	128.40	55.64
5140		25.96	184.31	55.00	129.31	56.03
5150		10.58	184.38	54.50	129.88	56.28
5160		14.52	184.31	54.10	130.21	56.42
5170		10.58	184.33	53.00	131.33	56.91
5180		12.02	184.31	53.00	131.31	56.90
5190		9.62	184.23	51.70	132.53	57.43
5200		7.84	184.21	52.10	132.11	57.25
5205		7.84	184.17	51.80	132.37	57.36
5210		15.72	184.15	51.60	132.55	57.44
5215		7.84	184.14	51.40	132.74	57.52
5220		7.84	184.14	51.10	133.04	57.65
5230		8.32	184.16	51.30	132.86	57.57
5235		96.88	184.18	51.90	132.28	57.32
5240		5.91	184.19	52.30	131.89	57.15
5250		12.02	184.16	51.90	132.26	57.31
5255		11.78	184.17	51.80	132.37	57.36
5260		23.56	184.13	51.40	132.73	57.52
5265		11.78	184.13	51.00	133.13	57.69
5270		2.21	184.10	51.30	132.80	57.55
5277		0.00	184.10	51.50	132.60	57.46
5279		25.82	184.04	51.00	133.04	57.65
5280		84.04	184.03	51.00	133.03	57.65
5290		0.00	184.02	50.10	133.92	58.03
5292		0.00	184.08	50.80	133.28	57.75
5295		5.72	183.98	50.10	133.88	58.02
5297		0.00	184.03	52.80	131.23	56.86
5500		7.50	187.72	60.00	127.72	55.34



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
5510		7.50	187.77	60.30	127.47	55.24
5520		7.50	187.79	60.60	127.19	55.11
5530		7.50	187.61	58.70	128.91	55.86
5540		7.50	187.72	59.00	128.72	55.78
5550		7.50	187.74	59.00	128.74	55.79
6000		0.00	184.27	52.20	132.07	57.23
7000		14.42	203.43	62.00	141.43	61.29
7005		14.42	202.96	61.40	141.56	61.34
7010		40.72	202.53	60.80	141.73	61.42
7015		28.85	201.84	60.30	141.54	61.33
7020		21.49	201.39	59.50	141.89	61.49
7025		9.14	201.01	62.30	138.71	60.11
7030		21.54	200.87	62.00	138.87	60.18
7035		36.25	199.74	60.50	139.24	60.34
7040	AURORA BTW	1.54	199.10	59.00	140.10	60.71
7045		0.00	198.39	58.50	139.89	60.62
7050		17.02	198.05	57.80	140.25	60.78
7055		17.02	197.76	57.50	140.26	60.78
7060		0.00	197.11	56.00	141.11	61.15
7070		0.00	196.92	57.00	139.92	60.63
7080		3.13	196.09	57.50	138.59	60.06
7100		15.39	203.16	63.00	140.16	60.74
7110		11.54	202.06	61.00	141.06	61.13
7120		18.27	201.84	60.50	141.34	61.25
7130		19.23	201.76	59.50	142.26	61.65
7140		11.54	201.97	62.00	139.97	60.65
7150		18.27	201.85	60.80	141.05	61.12
7160		19.23	201.85	59.10	142.75	61.86
7200		12.21	201.97	62.50	139.47	60.44
7210		11.40	202.30	62.50	139.80	60.58
7300		3.22	201.22	62.00	139.22	60.33
7310		9.62	202.53	62.00	140.53	60.90
7320		9.62	202.44	61.60	140.84	61.03
7330		8.03	201.79	62.00	139.79	60.58
7340		8.03	200.79	61.00	139.79	60.58
7350		9.62	200.58	60.20	140.38	60.83
7360		12.12	200.52	59.50	141.02	61.11
7370		9.62	199.56	60.40	139.16	60.30
7380		12.12	199.52	59.50	140.02	60.68
7390		2.93	198.27	60.00	138.27	59.92
7400		18.75	199.28	60.90	138.38	59.96
7405		18.75	198.83	62.00	136.83	59.29
7410		34.14	198.56	61.00	137.56	59.61



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7415		20.39	198.37	59.50	138.87	60.18
7420		23.56	198.27	60.20	138.07	59.83
7425		10.39	198.21	60.60	137.61	59.63
7430		18.75	198.01	60.70	137.31	59.50
7435		18.75	197.78	61.50	136.28	59.06
7440		31.06	197.68	61.00	136.68	59.23
7445		23.08	197.63	59.70	137.93	59.77
7450		14.14	198.19	59.50	138.69	60.10
7455		18.75	197.17	60.50	136.67	59.22
7460		18.75	197.00	61.20	135.80	58.85
7465		30.48	196.95	60.50	136.45	59.13
7470		22.98	196.90	59.50	137.40	59.54
7475		0.58	196.10	58.00	138.10	59.84
7480		21.40	196.58	60.30	136.28	59.06
7485		18.75	196.43	61.00	135.43	58.68
7490		38.70	196.37	60.00	136.37	59.09
7495		31.97	196.25	59.30	136.95	59.35
7500		16.83	196.10	57.90	138.20	59.89
7505		6.73	196.37	60.00	136.37	59.09
7510		13.46	196.14	60.00	136.14	58.99
7515		13.46	196.14	59.40	136.74	59.26
7520		13.46	196.05	58.40	137.65	59.65
7525		9.33	196.02	57.50	138.52	60.03
7530		6.73	195.87	59.00	136.87	59.31
7535		13.46	195.79	58.50	137.29	59.49
7540		13.46	195.73	57.80	137.93	59.77
7545		6.73	195.73	57.30	138.43	59.98
7550		13.46	196.29	59.20	137.09	59.40
7555		13.46	195.77	58.80	136.97	59.35
7560		13.46	195.43	58.30	137.13	59.42
7565		26.92	195.30	57.70	137.60	59.63
7570		26.92	195.20	57.10	138.10	59.84
7573		13.46	196.29	56.40	139.89	60.62
7575		13.46	195.19	56.40	138.79	60.14
7577		13.46	195.40	58.00	137.40	59.54
7580		0.00	196.61	58.20	138.41	59.98
7585		13.46	195.02	57.50	137.52	59.59
7590		25.48	195.01	56.90	138.11	59.85
7595		25.48	194.72	56.30	138.42	59.98
7600		12.74	194.67	55.60	139.07	60.26
7605		10.24	196.60	57.30	139.30	60.36
7610		12.02	194.43	56.60	137.83	59.73
7615		24.04	194.28	56.20	138.08	59.84





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7620		24.38	194.21	55.70	138.51	60.02
7625		12.36	194.18	55.10	139.08	60.27
7700		24.04	193.62	55.90	137.72	59.68
7705		22.93	193.41	55.00	138.41	59.98
7710		22.69	193.36	54.00	139.36	60.39
7715		12.02	193.55	53.80	139.75	60.56
7720		34.76	193.04	55.00	138.04	59.82
7725		25.63	192.79	54.10	138.69	60.10
7730		20.34	192.74	53.70	139.04	60.25
7735		10.48	192.73	53.50	139.23	60.33
7740		20.05	192.49	54.40	138.09	59.84
7745		19.52	192.38	53.70	138.68	60.10
7750		26.73	192.15	53.60	138.55	60.04
7755		20.91	192.17	53.50	138.67	60.09
7760		32.60	191.18	53.90	137.28	59.49
7765		34.91	191.03	53.60	137.43	59.55
7770		34.38	191.03	53.50	137.53	59.59
7775		15.15	191.28	53.20	138.08	59.84
7780		32.31	190.01	53.60	136.41	59.11
7785		37.21	189.80	53.50	136.30	59.06
7790		36.54	189.80	53.40	136.40	59.11
7795		12.98	189.41	53.00	136.41	59.11
7800		5.63	189.17	53.40	135.77	58.84
7805		1.92	189.60	53.40	136.20	59.02
7810		1.92	189.34	53.30	136.04	58.95
7815		2.40	189.27	53.30	135.97	58.92
7820		6.25	189.12	53.10	136.02	58.94
7825		3.85	188.70	50.80	137.90	59.76
7830		9.62	188.18	52.70	135.48	58.71
7835		3.13	188.28	52.80	135.48	58.71
7840		7.21	188.42	52.60	135.82	58.85
7845		5.53	188.46	52.20	136.26	59.05
7850		8.85	187.23	52.10	135.13	58.56
7855		5.00	187.22	52.20	135.02	58.51
7860		4.81	187.21	51.90	135.31	58.64
7865		4.81	187.77	52.00	135.77	58.83
7870		8.08	187.77	51.80	135.97	58.92
7875		91.35	186.36	52.00	134.36	58.22
7880		0.00	186.59	52.00	134.59	58.32
7885		91.35	186.07	52.00	134.07	58.10
7890		91.35	183.95	52.00	131.95	57.18
7895		2.40	184.62	52.00	132.62	57.47
7900		22.89	188.81	53.30	135.51	58.72





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
7905		20.00	188.78	53.30	135.48	58.71
7910		19.09	188.76	53.20	135.56	58.74
7915		3.89	188.68	52.80	135.88	58.88
7917		0.00	188.68	52.50	136.18	59.01
7920		9.86	188.55	52.90	135.65	58.78
7925		9.62	188.54	53.00	135.54	58.73
7930		9.62	188.54	52.80	135.74	58.82
7935		7.21	188.54	52.40	136.14	58.99
7937		0.53	188.46	52.10	136.36	59.09
7940		20.67	187.66	52.50	135.16	58.57
7945		20.67	187.93	52.40	135.53	58.73
7950		15.87	188.26	52.30	135.96	58.92
7955		8.65	188.34	52.00	136.34	59.08
8000		13.56	184.74	51.70	133.04	57.65
8005		15.77	184.68	51.60	133.08	57.67
8010		12.98	184.67	51.40	133.27	57.75
8015		3.99	184.67	51.30	133.37	57.79
8020		13.56	184.75	51.50	133.25	57.74
8025		16.40	184.69	51.40	133.29	57.76
8030		20.91	184.67	51.30	133.37	57.79
8035		11.30	184.66	51.90	132.76	57.53
8040		25.10	184.76	51.20	133.56	57.88
8045	6TH & EUCL	25.10	184.76	51.20	133.56	57.87
8050		21.16	184.75	50.80	133.95	58.05
8055		8.65	184.80	50.00	134.80	58.41
8060		20.19	184.62	50.90	133.72	57.95
8065		14.42	184.02	50.80	133.22	57.73
8070		19.23	184.41	50.40	134.01	58.07
8075		16.15	184.60	50.60	134.00	58.07
8080		8.32	184.29	50.50	133.79	57.98
8085		8.32	184.27	50.50	133.77	57.97
8090		106.55	183.59	49.50	134.09	58.11
8095		17.79	183.59	48.40	135.19	58.58
8100		0.00	183.74	49.50	134.24	58.17
8105		11.64	183.62	49.00	134.62	58.34
8110		7.26	183.59	48.70	134.89	58.45
8115		7.26	183.59	48.40	135.19	58.58
8120		11.64	183.59	48.00	135.59	58.76
8125		2.40	183.59	48.00	135.59	58.76
8130		2.40	183.59	47.70	135.89	58.89
8135		5.19	183.59	48.80	134.79	58.41
8140		1.01	183.59	49.50	134.09	58.10
8145		30.87	183.58	48.70	134.88	58.45



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8200		0.96	185.02	49.50	135.52	58.73
8205		0.91	185.02	49.00	136.02	58.94
8210		0.00	185.02	48.50	136.52	59.16
8215		13.85	185.34	48.70	136.64	59.21
8220		22.12	185.92	47.90	138.02	59.81
8225		19.14	186.73	47.70	139.03	60.24
8230		22.12	185.44	48.00	137.44	59.56
8235		22.12	185.91	47.50	138.41	59.98
8240		22.12	186.61	47.20	139.41	60.41
8250		11.06	185.45	47.50	137.95	59.78
8255		11.06	185.66	47.20	138.46	60.00
8260		11.06	185.69	47.20	138.49	60.01
8265		18.27	186.57	46.80	139.77	60.57
8270		5.77	185.66	47.20	138.46	60.00
8275		5.77	185.66	47.00	138.66	60.08
8280		5.77	185.66	46.80	138.86	60.17
8285		8.89	185.66	46.80	138.86	60.17
8290		8.89	185.66	46.80	138.86	60.17
8295		1.59	185.67	47.00	138.67	60.09
8300		4.18	187.50	49.50	138.00	59.80
8310		0.00	187.20	48.40	138.80	60.15
8320		0.87	186.85	47.80	139.05	60.26
8330		0.00	187.29	48.10	139.19	60.31
8340		0.00	187.40	48.00	139.40	60.41
8350		4.81	187.40	48.00	139.40	60.41
8360		0.00	186.85	47.60	139.25	60.34
8370		0.00	186.85	47.50	139.35	60.39
8380		7.21	187.80	48.60	139.20	60.32
8400		7.98	192.52	53.30	139.22	60.33
8410		0.58	192.52	53.00	139.52	60.46
8420		0.00	192.52	53.00	139.52	60.46
8430		0.58	192.52	53.20	139.32	60.37
8440		1.06	192.52	53.00	139.52	60.46
8450		0.96	192.52	52.80	139.72	60.54
8460		1.25	192.51	52.70	139.81	60.58
8470		1.25	192.51	52.50	140.01	60.67
8500		1.20	191.74	53.10	138.64	60.08
8510		1.73	191.14	52.70	138.44	59.99
8515		0.00	191.14	52.70	138.44	59.99
8520		1.01	190.63	52.00	138.63	60.07
8525		7.40	190.63	52.40	138.23	59.90
8530		0.24	190.36	52.00	138.36	59.96
8540		3.32	190.12	51.80	138.32	59.94



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

RUN-8

## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
8550		24.86	189.64	51.00	138.64	60.08
8560		24.57	189.62	51.80	137.82	59.72
8600		7.16	191.53	53.00	138.53	60.03
8610		23.13	191.52	52.20	139.32	60.37
8620		7.84	190.92	52.00	138.92	60.20
8630		25.24	190.83	51.70	139.13	60.29
8640		1.68	190.15	51.70	138.45	60.00
8650		9.90	190.18	51.40	138.78	60.14
8660		1.15	189.89	51.30	138.59	60.06
8670		4.33	189.80	51.10	138.70	60.10
8680		7.21	189.67	50.90	138.77	60.13
8690		0.00	188.40	49.50	138.90	60.19
8700		8.08	192.22	53.50	138.72	60.11
8710		11.59	192.60	53.70	138.90	60.19
8720		5.10	192.78	53.50	139.28	60.35
8725		9.66	192.99	54.00	138.99	60.23
8730		5.91	193.00	53.60	139.40	60.41
8735		11.88	193.22	53.80	139.42	60.42
8740		8.41	193.27	54.80	138.47	60.00
8745		8.41	193.25	54.00	139.25	60.34
8750		8.32	193.29	54.00	139.29	60.36
8755		216.36	189.36	55.20	134.16	58.13
8760		10.58	194.90	55.60	139.30	60.36
8765		3.08	194.90	54.70	140.20	60.75
8770		2.40	194.90	57.00	137.90	59.76
8775		7.21	196.87	57.00	139.87	60.61
8800		0.96	192.35	53.50	138.85	60.17
8810		11.35	192.46	53.00	139.46	60.43
8820		13.46	192.82	53.20	139.62	60.50
8830		4.47	193.17	53.20	139.97	60.65
8840		1.54	193.67	53.70	139.97	60.65
8845		1.59	193.67	53.70	139.97	60.65
8850		2.02	194.57	54.30	140.27	60.79
8900		15.29	192.50	52.10	140.40	60.84
8910		27.69	192.83	52.50	140.33	60.81
8920		12.40	193.17	52.80	140.37	60.83
8930		7.69	193.46	53.10	140.36	60.82
8940		0.53	193.73	53.40	140.33	60.81
8950		0.48	194.10	53.70	140.40	60.84
8960		2.74	194.68	54.80	139.88	60.61
8970		1.92	195.51	55.20	140.31	60.80
8975		5.19	195.07	55.00	140.07	60.70
8980		63.27	196.27	55.60	140.67	60.96





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9000		4.23	189.27	48.80	140.47	60.87
9010		0.19	189.80	48.80	141.00	61.10
9020		0.00	190.62	48.80	141.82	61.45
9030		1.20	191.20	49.10	142.10	61.58
9040		0.00	191.57	49.30	142.27	61.65
9050		0.00	191.75	49.50	142.25	61.64
9060		9.86	191.87	49.70	142.17	61.61
9070		10.82	192.17	50.00	142.17	61.61
9080		10.82	192.55	50.90	141.65	61.38
9090		5.53	192.93	51.40	141.53	61.33
9100		12.07	193.04	51.50	141.54	61.33
9110		0.00	193.30	52.00	141.30	61.23
9115		4.81	193.30	52.50	140.80	61.01
9120		4.47	193.72	52.60	141.12	61.15
9130		4.47	194.76	53.40	141.36	61.25
9140		1.78	195.36	54.00	141.36	61.26
9150	ROSS & McC	9.62	194.89	54.00	140.89	61.05
9160		0.00	194.76	54.00	140.76	61.00
9170		0.00	194.70	54.00	140.70	60.97
9175		7.74	193.99	53.30	140.69	60.97
9180		0.00	194.65	54.20	140.45	60.86
9190		0.00	194.67	54.80	139.87	60.61
9200		8.51	197.83	56.20	141.63	61.37
9210		8.51	197.93	56.00	141.93	61.50
9220		7.40	198.07	57.00	141.07	61.13
9230		10.96	198.08	56.80	141.28	61.22
9240		4.04	198.01	56.50	141.51	61.32
9250		7.79	198.31	57.80	140.51	60.89
9260		11.35	198.27	57.50	140.77	61.00
9270		7.45	198.37	58.50	139.87	60.61
9280		9.95	198.35	58.30	140.05	60.69
9300		0.00	200.35	61.50	138.85	60.17
9310		0.00	200.03	61.00	139.03	60.25
9320		4.33	200.32	62.00	138.32	59.94
9330		22.89	199.75	61.50	138.25	59.91
9333		3.65	198.96	61.00	137.96	59.78
9337		5.34	198.72	61.00	137.72	59.68
9340		8.41	198.36	59.00	139.36	60.39
9345		5.48	198.37	59.00	139.37	60.39
9350		9.76	198.39	60.00	138.39	59.97
9355		7.79	198.39	59.60	138.79	60.14
9360		11.15	198.43	60.50	137.93	59.77
9365		2.16	198.40	59.40	139.00	60.23



## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9370		7.07	198.48	60.50	137.98	59.79
9375		9.14	198.42	60.50	137.92	59.76
9380		8.22	198.47	60.80	137.67	59.66
9385		2.26	198.41	60.50	137.91	59.76
9390		9.57	198.43	60.60	137.83	59.72
9395		5.48	198.43	60.50	137.93	59.77
9400		17.60	207.70	65.00	142.70	61.84
9410		0.00	207.49	64.00	143.49	62.18
9415		2.40	207.49	65.00	142.49	61.74
9420		12.93	207.20	63.00	144.20	62.49
9425		2.40	207.49	65.00	142.49	61.75
9430		0.00	207.04	62.00	145.04	62.85
9440		34.62	206.85	62.00	144.85	62.77
9460		5.77	207.88	65.50	142.38	61.70
9470		4.47	208.02	65.50	142.52	61.76
9480		0.00	208.02	65.50	142.52	61.76
9490		10.39	206.85	62.00	144.85	62.77
9500		12.02	193.43	52.70	140.73	60.98
9505		4.33	193.65	52.20	141.45	61.29
9510		18.80	193.29	52.10	141.19	61.18
9513		0.00	193.29	51.80	141.49	61.31
9515		12.21	193.46	51.80	141.66	61.39
9520		21.30	192.85	51.50	141.35	61.25
9525		6.73	192.98	51.50	141.48	61.31
9530		20.53	192.50	51.20	141.30	61.23
9535		16.78	192.54	51.10	141.44	61.29
9540		19.14	191.84	50.80	141.04	61.12
9545		26.54	191.84	50.50	141.34	61.25
9550		0.00	191.07	51.00	140.07	60.70
9555		11.68	190.94	50.50	140.44	60.86
9560		23.37	191.63	50.00	141.63	61.37
9565		355.79	190.40	50.50	139.90	60.62
9570		0.00	190.85	50.30	140.55	60.91
9575		0.00	190.40	50.20	140.20	60.75
9580		0.34	189.49	49.50	139.99	60.66
9585		9.66	190.89	50.00	140.89	61.05
9590		6.35	191.56	49.80	141.76	61.43
9595		1.68	191.56	49.70	141.86	61.47
9600		0.00	193.59	52.00	141.59	61.35
9605		6.44	193.16	51.50	141.66	61.38
9610		4.04	192.85	51.40	141.45	61.30
9640		20.63	191.56	49.70	141.86	61.47
9650		10.43	191.56	49.40	142.16	61.60



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
9660		5.77	191.55	49.20	142.35	61.68
9670		4.09	191.68	49.40	142.28	61.65
9673		0.00	191.69	49.50	142.19	61.61
9675		3.17	191.68	49.40	142.28	61.65
9680		20.87	191.69	49.70	141.99	61.53
9685		0.00	190.62	48.90	141.72	61.41
9687		0.00	190.62	48.80	141.82	61.45
9688		0.00	190.62	48.90	141.72	61.41
9700		2.07	194.74	53.60	141.14	61.16
9710		0.00	194.76	53.30	141.46	61.30
9720		6.97	194.80	53.30	141.50	61.31
9730		2.16	194.84	53.60	141.24	61.20
9740		0.00	193.64	52.30	141.34	61.25
9750		6.44	193.20	51.80	141.40	61.27
9760		17.55	192.92	51.50	141.42	61.28
9770		12.12	192.68	51.20	141.48	61.31
9780		26.68	192.05	50.60	141.45	61.30
9790		12.89	191.84	50.10	141.74	61.42
9800		3.65	198.78	60.50	138.28	59.92
9810		5.34	198.73	60.50	138.23	59.90
9820		9.62	198.58	60.00	138.58	60.05
9830		11.06	198.54	60.00	138.54	60.03
9840		9.62	198.51	60.00	138.51	60.02
9850		11.06	198.52	60.00	138.52	60.03
9860		9.62	198.40	58.50	139.90	60.63
9870		11.06	197.90	57.00	140.90	61.06
9880		11.06	197.84	56.50	141.34	61.25
9900		0.00	195.36	57.00	138.36	59.95
9910		0.00	195.36	58.00	137.36	59.52
9920		0.00	195.06	58.00	137.06	59.39
10000		18.03	194.22	56.40	137.82	59.72
10010	6TH & HAMI	24.04	194.01	56.00	138.01	59.81
10020		24.04	193.80	55.00	138.80	60.15
10030		21.44	193.67	55.60	138.07	59.83
10040		11.54	193.24	54.00	139.24	60.34
10050		15.58	193.00	53.70	139.30	60.36
10060		12.02	192.78	53.50	139.28	60.35
10070		0.00	192.58	53.40	139.18	60.31
10080		7.21	192.52	53.30	139.22	60.33
10090		0.43	192.36	53.30	139.06	60.26
10100		8.89	192.35	53.20	139.15	60.30
10110		9.09	192.35	53.00	139.35	60.38
10115		5.05	192.35	53.00	139.35	60.38





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
10120		8.03	192.34	52.00	140.34	60.82
10130		8.46	191.92	51.60	140.32	60.81
10140		15.96	191.53	51.40	140.13	60.72
10150		0.00	191.16	51.00	140.16	60.74
10160		45.68	190.79	50.80	139.99	60.66
10170		9.47	190.18	50.50	139.68	60.53
10180		2.74	189.59	50.00	139.59	60.49
10185		33.70	189.49	50.00	139.49	60.45
10190		4.33	188.36	49.00	139.36	60.39
10195		0.00	188.36	49.20	139.16	60.30
10210		36.20	188.34	51.50	136.84	59.30
14100		9.62	191.63	66.50	125.13	54.22
14110		14.42	191.44	66.70	124.74	54.05
14115		4.81	191.44	66.80	124.64	54.01
14120		9.62	191.35	66.30	125.05	54.19
14130		14.42	191.27	66.50	124.77	54.07
14135		4.81	191.27	66.70	124.57	53.98
14140		8.41	190.96	65.80	125.16	54.24
14150		6.01	190.97	66.00	124.97	54.16
14160		13.22	190.89	65.50	125.39	54.34
14170		13.22	190.77	65.70	125.07	54.20
20500		0.00	216.95	67.20	149.75	64.89
23000		0.82	184.16	50.00	134.16	58.14
23010		0.00	184.06	50.00	134.06	58.09
23020		0.00	183.99	47.00	136.99	59.36
23030		0.00	183.92	46.00	137.92	59.77
23040		1.80	183.85	45.00	138.85	60.17
23050		0.00	184.05	50.00	134.05	58.09
23060		0.00	184.04	49.00	135.04	58.52
23070		10.10	184.03	48.50	135.53	58.73
23100	BRADSHAW &	0.00	184.02	47.00	137.02	59.38
23110		81.74	184.00	48.00	136.00	58.93
23120		5.14	184.01	48.50	135.51	58.72
23200		0.00	184.03	49.00	135.03	58.51
23210		0.00	184.03	49.00	135.03	58.51
23220		0.00	184.03	47.50	136.53	59.16
23230		10.10	184.03	46.50	137.53	59.60
23240		12.02	184.03	46.00	138.03	59.81
23400		0.00	184.11	49.00	135.11	58.55
23410		0.00	184.09	49.00	135.09	58.54
23420		0.00	184.07	48.00	136.07	58.96
23500		0.00	184.04	47.00	137.04	59.39
23510		0.00	184.04	47.00	137.04	59.38





## CITY OF EL CENTRO WATER MASTER PLAS UPDATE

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## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
23520		0.00	184.04	47.00	137.04	59.38
23530		0.00	184.03	47.00	137.03	59.38
23540		0.00	184.03	46.50	137.53	59.60
23550		0.00	184.03	46.00	138.03	59.81
24000		495.22	169.26	76.00	93.26	40.41
39000		0.00	207.02	68.00	139.02	60.24
39010		0.00	206.39	64.50	141.89	61.49
39020		0.00	206.62	63.00	143.62	62.23
39040		0.00	208.41	66.00	142.41	61.71
39200		0.00	202.33	63.50	138.83	60.16
39210		0.00	201.17	63.00	138.17	59.88
40000		110.58	204.68	71.00	133.68	57.93
40010		153.86	203.26	71.00	132.26	57.31
40020		207.71	202.14	70.50	131.64	57.04
40030		216.36	201.29	70.00	131.29	56.89
40040		155.78	200.90	70.00	130.90	56.72
40050		220.69	200.83	70.00	130.83	56.69
40060		0.00	199.85			
40070		0.00	199.02			
40080		0.00	198.52			
40100		35.58	202.08	70.50	131.58	57.02
40110		57.70	201.12	70.00	131.12	56.82
40115		57.70	200.94	70.00	130.94	56.74
40120		22.60	200.97	70.50	130.47	56.54
40130		22.60	200.86	71.00	129.86	56.27
40140		22.60	200.83	70.50	130.33	56.48
40150		57.70	200.81	70.00	130.81	56.69
40160		57.70	200.81	70.00	130.81	56.69
41000		216.36	206.44	72.50	133.94	58.04
41010		144.24	206.71	73.50	133.21	57.73
41020		144.24	207.29	75.00	132.29	57.32
41025		225.98	208.12	73.00	135.12	58.55
41028		288.48	210.33	71.00	139.33	60.38
41030		80.77	206.58	75.00	131.58	57.02
41040		80.77	206.55	76.00	130.55	56.57
41050		80.77	206.56	76.00	130.56	56.57
41055		125.01	206.65	76.00	130.65	56.62
41057		125.01	207.18	75.00	132.18	57.28
41060		80.77	208.09	72.50	135.59	58.76
41070		113.47	208.07	72.00	136.07	58.96
41080		129.82	208.51	69.00	139.51	60.45
41090		45.20	206.64	76.00	130.64	56.61
41100		84.14	206.64	76.00	130.64	56.61



CITY OF EL CENTRO WATER MASTER PLAS UPDATE  
JUNCTION NODE RESULTS

RUN-8

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
41110		84.14	207.21	75.00	132.21	57.29
41120		57.70	207.08	72.00	135.08	58.54
41130		113.47	206.28	72.00	134.28	58.19
41140		38.94	206.40	74.00	132.40	57.37
41150		123.08	206.23	76.00	130.23	56.43
41160		123.08	206.22	74.00	132.22	57.29
41170		123.08	206.13	68.00	138.13	59.86
50010		155.78	191.92	67.50	124.42	53.91
50020		210.59	192.40	67.50	124.90	54.12
50030		51.93	191.65	67.00	124.65	54.01
50040		204.34	190.95	67.00	123.95	53.71
50050		152.41	189.39	65.00	124.39	53.90
50060		142.80	188.30	64.00	124.30	53.86
50070		187.51	187.00	63.00	124.00	53.73
50080		324.54	185.96	61.00	124.96	54.15
50090		235.59	185.21	59.00	126.21	54.69
50100		324.54	184.67	56.50	128.17	55.54
50110		200.97	184.35	54.00	130.35	56.49
50120		291.85	184.12	53.00	131.12	56.82
50130		272.61	184.07	54.00	130.07	56.37
51000		35.58	191.50	68.00	123.50	53.52
51010		35.58	191.21	68.00	123.21	53.39
51020		57.70	191.63	68.00	123.63	53.57
51030		57.70	191.11	68.00	123.11	53.35
51040		22.60	190.62	68.00	122.62	53.14
51050		67.31	190.48	67.50	122.98	53.29
51060		67.31	190.22	68.00	122.22	52.96
51070		45.20	188.61	67.00	121.61	52.70
51080		142.80	187.72	65.00	122.72	53.18
51090		142.80	187.57	66.00	121.57	52.68
51100		96.16	186.22	64.00	122.22	52.96
51110		142.80	185.45	64.00	121.45	52.63
51120		142.80	185.53	62.50	123.03	53.31
51130		41.83	184.85	61.00	123.85	53.67
51140		90.87	184.48	57.00	127.48	55.24
51150		90.87	184.43	58.00	126.43	54.79
51160		90.87	184.05	56.00	128.05	55.49
51170		93.76	183.93	53.00	130.93	56.74
51180		93.76	183.90	53.00	130.90	56.72
51190		96.16	183.84	49.00	134.84	58.43
51200		96.16	183.76	47.00	136.76	59.26
51210		45.20	183.75	47.50	136.25	59.04
51220		45.20	183.76	48.00	135.76	58.83



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
51230		45.20	183.80	49.00	134.80	58.41
52000		51.93	183.76	46.00	137.76	59.69
52010		142.80	183.79	45.00	138.79	60.14
70000		173.09	211.48	68.00	143.48	62.17
70010		245.21	209.12	67.00	142.12	61.59
70020		147.61	207.64	66.50	141.14	61.16
70030		324.54	206.13	66.00	140.13	60.72
70040		233.67	204.78	67.00	137.78	59.71
70050		259.63	203.44	65.00	138.44	59.99
70060		54.81	202.26	64.50	137.76	59.70
70070		54.81	201.10	64.00	137.10	59.41
70080		197.13	200.01	63.00	137.01	59.37
70090		0.00	199.02	60.00	139.02	60.24
70100		0.00	198.63	60.00	138.63	60.07
70110		270.21	197.55	58.50	139.05	60.25
70115		216.36	195.94	58.00	137.94	59.78
70120		240.40	196.64	57.00	139.64	60.51
70130		139.43	195.15	55.00	140.15	60.73
70140		259.63	193.77	53.00	140.77	61.00
70150		187.51	193.26	53.00	140.26	60.78
70200		283.67	192.84	53.00	139.84	60.60
74000		67.31	195.37	57.50	137.87	59.74
74005		168.28	195.87	56.50	139.37	60.40
74010		136.07	194.36	58.00	136.36	59.09
74020		67.31	193.90	58.00	135.90	58.89
74030		91.35	193.47	58.50	134.97	58.49
74040		67.31	193.32	59.50	133.82	57.99
74050		67.31	193.23	60.00	133.23	57.73
74060		38.94	193.17	57.50	135.67	58.79
74070		71.16	193.13	56.00	137.13	59.42
74080		0.00	193.14	56.50	136.64	59.21
74090		71.16	193.15	57.00	136.15	59.00
74095		0.00	193.31	58.00	135.31	58.63
74100		71.16	193.21	56.00	137.21	59.46
74110		144.24	193.30	55.00	138.30	59.93
74115		80.77	193.69	55.00	138.69	60.10
74120		80.77	193.50	54.00	139.50	60.45
74200		96.16	195.58	58.50	137.08	59.40
74210		123.08	194.37	59.00	135.37	58.66
74220		97.12	193.76	59.50	134.26	58.18
74230		123.08	193.43	60.00	133.43	57.82
74240		97.12	193.25	60.50	132.75	57.52
74250		97.12	193.22	61.00	132.22	57.29





## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
74300		158.66	193.12	51.00	142.12	61.59
74310		61.54	192.89	52.00	140.89	61.05
74320		123.08	192.80	52.00	140.80	61.01
74330		57.70	192.73	53.50	139.23	60.33
74340		136.07	192.72	55.00	137.72	59.68
74350		71.16	192.71	54.50	138.21	59.89
74360		71.16	192.73	55.00	137.73	59.68
74500		57.70	192.67	50.00	142.67	61.82
74510		57.70	192.60	52.00	140.60	60.93
74520		103.85	192.59	52.00	140.59	60.92
74530		41.83	192.58	51.50	141.08	61.14
74540		46.64	192.59	51.00	141.59	61.36
74550		41.83	192.65	52.50	140.15	60.73
74570		28.85	192.64	53.00	139.64	60.51
74600		194.72	192.14	50.00	142.14	61.59
74610		163.47	191.40	51.00	140.40	60.84
76000		259.63	194.49	59.00	135.49	58.71
76010		259.63	194.48	58.00	136.48	59.14
80000		288.48	184.02	50.00	134.02	58.07
80010		245.21	184.02	48.00	136.02	58.94
80020		180.30	184.08	47.00	137.08	59.40
80030		149.05	184.21	46.50	137.71	59.68
80040		201.94	184.41	46.00	138.41	59.98
80050		168.28	184.71	48.00	136.71	59.24
80060		230.78	185.10	50.00	135.10	58.54
80070		105.78	185.57	49.00	136.57	59.18
80080		105.78	186.16	48.00	138.16	59.87
80090		0.00	187.05	48.00	139.05	60.25
80100		0.00	187.42	48.00	139.42	60.42
80200		175.01	183.69	48.00	135.69	58.80
80210		84.14	183.69	48.00	135.69	58.80
80220		139.43	183.70	47.00	136.70	59.24
80230		139.43	183.78	48.00	135.78	58.84
80300		155.78	183.97	48.50	135.47	58.70
80400		51.93	183.71	45.00	138.71	60.11
80410		51.93	183.74	44.00	139.74	60.56
80420		51.93	183.86	43.00	140.86	61.04
80430		51.93	184.07	44.50	139.57	60.48
80500		77.89	184.51	46.00	138.51	60.02
80510		77.89	184.82	46.00	138.82	60.16
80520		77.89	185.35	47.00	138.35	59.95
90000	3 RD & COM	28.37	188.37	50.00	138.37	59.96



## JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	JUNCTION ELEVATION	PRESSURE HEAD	JUNCTION PRESSURE
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## SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES

(-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
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1	32253.83

NET SYSTEM INFLOW = 32253.83

NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 32253.69

\*\*\*\* CYBERNET SIMULATION COMPLETED \*\*\*\*

DATE: 10/02/1994

TIME: 14:33:40



## APPENDIX C

### CITY OF EL CENTRO WATER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS

#### RUN 9 (Figure 5.13)

#### Ultimate Water Distribution System Available Fire Flow for Average Day Demand of Maximum Demand Month

Total Demand	20,700 gpm	29.8 mgd
Pump Station Discharge Rate:		
Water Treatment Plant PS	20,700 gpm	
Pump Station Discharge Head:		
Water Treatment Plant PS	143.0 ft	62.0 psi
Hydraulic Grade Elevation:		
at Water Treatment Plant PS (El. 67 ft)	210.0 ft	62.0 psi
at Remote Pump Station (El. 60 ft)	197.3 ft	59.5 psi
at 3rd & Commercial (El. 50 ft)	197.3 ft	63.8 psi









Cybernet Version: 2.16c SN: 1162130099 27-09-1994  
 Description: FIRE FLOW RUN FOR ULTIMATE SYSTEM  
 Drawing: C:\ELCENTRO\EC-ULTW1

Fire Flow Summary.

Page 1

JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT No.
5	0.0	61.6	1	1500.0	5000.0	61.6	57.1	3060
10	0.0	61.1	1	1500.0	5000.0	60.7	56.9	3060
15	0.0	60.8	1	1500.0	5000.0	59.5	56.5	3060
20	0.0	60.2	1	1500.0	5000.0	58.1	56.2	3080
30	0.0	60.8	1	1500.0	5000.0	58.2	55.9	3080
40	0.0	61.3	1	1500.0	5000.0	58.5	55.8	3080
50	4.8	61.9	1	1504.8	5000.0	59.0	55.7	3080
60	5.9	61.7	1	1505.9	5000.0	58.4	55.5	3080
70	5.9	61.7	1	1505.9	5000.0	58.2	55.3	14135
80	0.5	62.1	1	1500.5	5000.0	58.7	55.0	14135
90	5.6	62.2	1	1505.6	5000.0	58.7	54.9	14135
100	8.6	62.3	1	1508.6	5000.0	58.7	55.0	14135
210	0.0	60.6	1	1500.0	5000.0	59.5	56.6	3060
220	0.0	59.8	1	1500.0	5000.0	58.0	56.0	3060
230	0.0	59.5	1	1500.0	5000.0	56.0	55.1	3060
240	0.0	59.5	1	1500.0	5000.0	54.5	54.6	3220
250	0.0	59.6	1	1500.0	5000.0	54.3	54.1	3220
260	63.8	59.5	1	1563.8	5000.0	54.4	53.7	3220
270	9.3	59.8	1	1509.3	5000.0	54.8	53.8	3220
280	0.0	59.9	1	1500.0	5000.0	55.0	53.9	3220
300	18.7	60.0	1	1518.7	5000.0	55.2	54.1	14135
305	10.9	60.3	1	1510.9	5000.0	55.4	54.0	14135
310	11.4	60.5	1	1511.4	5000.0	55.6	54.0	14135
315	12.4	60.7	1	1512.4	5000.0	56.1	53.9	14135
320	15.8	60.9	1	1515.8	5000.0	56.1	54.1	14135
325	21.8	61.5	1	1521.8	5000.0	56.7	54.4	14135
330	14.3	61.8	1	1514.3	5000.0	57.4	54.6	14135
335	5.6	61.9	1	1505.6	5000.0	57.6	54.7	14135
400	9.7	60.7	1	1509.7	5000.0	55.8	53.8	14135
405	9.7	60.8	1	1509.7	5000.0	53.3	53.8	14135
410	9.7	60.7	1	1509.7	5000.0	52.2	53.4	3610
415	15.6	60.8	1	1515.6	5000.0	52.3	53.5	3620
420	9.7	60.9	1	1509.7	5000.0	52.0	53.1	900
425	18.9	61.0	1	1518.9	5000.0	50.8	52.1	430
430	0.0	60.9	1	1500.0	5000.0	50.3	51.7	435
435	8.7	61.1	1	1508.7	5000.0	49.9	51.8	430
440	4.4	61.4	1	1504.4	5000.0	50.5	50.4	3650
445	2.5	61.5	1	1502.5	5000.0	51.0	52.3	3650
450	17.1	61.4	1	1517.1	5000.0	51.8	52.8	445
455	17.0	61.4	1	1517.0	5000.0	51.8	52.9	457
457	9.4	61.6	1	1509.4	5000.0	48.9	53.1	455

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 2

JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
459	16.7	62.3	1	1516.7	5000.0	49.1	52.9	457
460	0.0	62.4	1	1500.0	5000.0	52.8	53.8	459
465	16.1	62.8	1	1516.1	5000.0	54.3	54.4	3080
470	5.3	62.9	1	1505.3	5000.0	54.3	54.4	3080
475	1.8	62.8	1	1501.8	5000.0	54.9	54.4	3080
480	1.1	62.7	1	1501.1	5000.0	54.9	54.4	3080
485	9.0	62.6	1	1509.0	5000.0	54.9	54.4	3080
490	24.8	62.7	1	1524.8	5000.0	53.4	54.0	1755
495	21.1	62.8	1	1521.1	5000.0	53.9	54.6	14135
500	12.6	62.7	1	1512.6	5000.0	54.8	54.7	14135
505	18.4	62.5	1	1518.4	5000.0	54.1	54.7	14135
510	14.9	62.4	1	1514.9	5000.0	55.0	54.8	14135
600	8.7	61.4	1	1508.7	5000.0	50.0	51.1	605
605	15.3	61.4	1	1515.3	5000.0	49.2	49.3	1880
610	31.4	61.3	1	1531.4	5000.0	50.4	51.4	4700
615	9.7	61.7	1	1509.7	5000.0	49.5	52.3	610
620	10.4	62.0	1	1510.4	5000.0	50.7	50.9	4800
625	7.2	62.4	1	1507.2	5000.0	49.1	51.7	4800
630	2.2	62.5	1	1502.2	5000.0	50.9	51.7	4900
635	2.2	62.5	1	1502.2	5000.0	48.7	51.7	1920
640	3.1	62.6	1	1503.1	5000.0	49.7	50.0	645
645	52.9	62.6	1	1552.9	5000.0	45.4	47.1	650
650	0.0	62.6	1	1500.0	5000.0	40.7	45.0	655
655	12.4	62.7	1	1512.4	5000.0	38.8	39.9	660
660	11.2	62.8	1	1511.2	2637.0	35.0	45.2	2020
700	19.9	62.8	1	1519.9	5000.0	54.0	54.3	3080
705	8.8	62.7	1	1508.8	5000.0	51.4	53.1	1982
710	10.8	62.7	1	1510.8	5000.0	49.1	49.2	1982
715	9.0	62.8	1	1509.0	5000.0	48.3	49.9	8000
720	24.3	62.8	1	1524.3	5000.0	47.3	48.6	8040
725	13.0	63.0	1	1513.0	5000.0	43.9	48.2	730
730	21.5	63.0	1	1521.5	5000.0	37.5	37.5	8085
735	24.2	63.0	1	1524.2	5000.0	36.5	42.2	740
740	22.3	63.1	1	1522.3	5000.0	36.2	42.3	735
745	11.2	63.1	1	1511.2	5000.0	36.5	40.6	750
750	0.0	63.3	1	1500.0	5000.0	36.7	39.1	8100
800	8.7	60.2	1	1508.7	5000.0	54.4	53.6	14135
810	16.1	59.5	1	1516.1	5000.0	53.9	53.5	14135
820	9.3	58.9	1	1509.3	5000.0	53.1	53.2	830
830	9.3	58.7	1	1509.3	5000.0	53.0	53.2	14170

\* Needed Fire Flow not attained.



## Fire Flow Summary.

Page 3

JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
840	5.4	58.6	1	1505.4	5000.0	52.9	53.1	14170
850	0.0	58.7	1	1500.0	5000.0	52.7	53.1	4267
860	8.8	58.6	1	1508.8	5000.0	52.1	52.6	4220
870	3.1	59.9	1	1503.1	5000.0	50.1	49.1	4145
880	8.3	60.3	1	1508.3	5000.0	50.7	50.5	4125
890	8.3	60.6	1	1508.3	5000.0	51.9	50.8	4110
900	9.7	60.5	1	1509.7	5000.0	47.2	53.4	910
910	31.8	60.1	1	1531.8	5000.0	51.5	53.0	3625
920	23.5	59.8	1	1523.5	5000.0	47.5	53.5	14135
935	3.5	59.1	1	1503.5	5000.0	52.2	52.7	940
940	3.5	59.0	1	1503.5	5000.0	47.6	50.7	950
950	7.4	58.7	1	1507.4	5000.0	47.9	49.6	960
960	8.0	58.5	1	1508.0	5000.0	47.2	49.9	950
970	11.3	58.2	1	1511.3	5000.0	48.7	50.5	980
980	3.4	58.2	1	1503.4	5000.0	48.6	50.6	970
1000	19.1	59.9	1	1519.1	3611.0	35.0	46.3	1100
1010	20.3	60.4	1	1520.3	5000.0	35.3	42.0	1110
1015	9.4	60.9	1	1509.4	4188.6	35.0	44.8	1090
1030	3.1	59.4	1	1503.1	4110.0	35.0	39.2	1040
1040	10.9	59.5	1	1510.9	3609.2	35.0	39.7	1150
1050	10.5	60.0	1	1510.5	3745.9	35.0	36.9	1160
1060	13.1	60.0	1	1513.1	2335.5	35.0	42.4	1200
1070	13.8	60.3	1	1513.8	2337.7	35.0	42.9	1210
1080	12.5	60.8	1	1512.5	2641.4	35.0	44.0	1090
1090	9.4	60.8	1	1509.4	1856.6	35.0	52.9	1080
1100	6.0	59.9	1	1506.0	1612.1	35.0	56.4	1110
1110	8.7	60.1	1	1508.7	3923.5	35.0	40.9	1100
1150	11.3	59.4	1	1511.3	2096.5	35.0	38.2	1240
1155	8.4	59.6	1	1508.4	1594.1	35.0	49.5	1150
1160	10.9	59.7	1	1510.9	2948.3	35.0	38.2	1255
1170	6.0	59.4	1	1506.0	1530.1	35.0	35.0	1240
1175	3.2	59.5	1	1503.2	1428.8*	35.0	35.0	1245
1180	3.2	59.6	1	1503.2	1563.0	35.0	35.0	1250
1185	5.6	59.7	1	1505.6	2672.9	35.0	35.0	1255
1200	11.0	60.0	1	1511.0	2165.6	35.0	44.7	1220
1205	8.4	59.7	1	1508.4	2444.5	35.0	35.0	1260
1210	11.7	60.1	1	1511.7	2106.1	35.0	41.9	1220
1220	9.1	59.6	1	1509.1	1934.9	35.0	35.2	1270
1225	5.9	59.7	1	1505.9	2086.6	35.0	35.0	1265
1240	6.3	59.4	1	1506.3	1190.9*	35.0	43.7	1170

\* Needed Fire Flow not attained.





## Fire Flow Summary.

Page 84

JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
1245	6.3	59.5	1	1506.3	1122.5*	35.0	43.5	1175
1250	6.3	59.6	1	1506.3	1173.9*	35.0	44.7	1180
1255	6.3	59.7	1	1506.3	1478.8*	35.0	50.6	1185
1260	5.4	59.7	1	1505.4	1252.4*	35.0	51.8	1205
1265	7.5	59.8	1	1507.5	1111.0*	35.0	51.3	1225
1270	7.5	59.8	1	1507.5	1104.4*	35.0	50.3	1220
1275	24.2	59.9	1	1524.2	3568.4	35.0	48.7	1030
1300	14.4	60.0	1	1514.4	4152.2	35.0	52.7	1310
1305	19.6	60.5	1	1519.6	3433.8	35.0	51.9	1010
1310	0.0	60.2	1	1500.0	5000.0	47.0	48.6	1300
1315	11.7	59.7	1	1511.7	4987.3	35.0	47.0	1320
1320	17.0	60.5	1	1517.0	3340.1	35.0	53.4	1315
1325	5.9	60.4	1	1505.9	5000.0	49.8	50.3	1330
1330	9.9	60.5	1	1509.9	5000.0	47.0	50.7	1325
1335	19.4	60.6	1	1519.4	5000.0	36.7	44.1	1435
1350	11.2	60.8	1	1511.2	4263.0	35.0	47.7	1440
1400	11.4	60.8	1	1511.4	2749.0	35.0	50.7	1405
1403	8.8	60.9	1	1508.8	2895.0	35.0	50.7	1400
1405	11.9	60.6	1	1511.9	2806.9	35.0	50.3	1400
1420	6.2	61.0	1	1506.2	2509.8	35.0	53.3	1400
1425	9.9	61.2	1	1509.9	3627.4	35.0	45.7	1420
1430	6.5	61.3	1	1506.5	3172.2	35.0	51.0	1440
1435	17.9	61.0	1	1517.9	4322.0	35.0	48.3	1335
1440	8.7	61.0	1	1508.7	2997.2	35.0	52.2	1430
1445	5.9	61.2	1	1505.9	3777.2	35.0	45.4	1420
1450	4.3	61.4	1	1504.3	4116.1	35.0	40.6	1540
1455	6.2	61.3	1	1506.2	2182.0	35.0	55.1	1403
1460	9.0	61.3	1	1509.0	4174.9	35.0	45.0	1455
1465	4.3	61.5	1	1504.3	3547.6	35.0	50.9	1475
1470	5.9	61.5	1	1505.9	5000.0	39.8	50.4	1460
1475	0.0	61.8	1	1500.0	3792.9	35.0	49.0	1465
1540	22.1	61.5	1	1522.1	3076.4	35.0	50.1	1450
1600	5.7	60.9	1	1505.7	1917.2	35.0	56.2	3080
1605	11.2	61.3	1	1511.2	2627.3	35.0	51.9	1600
1610	5.9	61.7	1	1505.9	4238.0	35.0	45.3	1615
1615	5.6	61.6	1	1505.6	3211.7	35.0	49.1	1605
1620	0.0	61.9	1	1500.0	5000.0	36.3	43.8	1625
1625	14.2	61.9	1	1514.2	5000.0	35.4	43.9	1620
1630	14.2	61.7	1	1514.2	5000.0	36.6	46.5	1605
1635	10.0	61.6	1	1510.0	5000.0	42.7	51.8	1630

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
1640	4.6	62.0	1	1504.6	4120.9	35.0	43.1	1705
1645	8.7	62.0	1	1508.7	3387.7	35.0	49.7	1647
1647	4.4	62.1	1	1504.4	3381.4	35.0	49.0	1650
1650	8.7	61.9	1	1508.7	3431.6	35.0	48.6	1647
1653	4.4	61.9	1	1504.4	3541.6	35.0	49.5	1650
1655	4.3	61.8	1	1504.3	3904.5	35.0	48.7	1653
1700	19.4	61.9	1	1519.4	2564.9	35.0	46.8	1702
1702	38.3	61.9	1	1538.3	2069.5	35.0	52.3	1700
1705	9.3	62.2	1	1509.3	1953.3	35.0	56.3	3080
1750	22.9	61.5	1	1522.9	1283.7*	35.0	51.7	1755
1755	23.1	62.2	1	1523.1	1294.8*	35.0	50.9	1750
1770	7.8	61.7	1	1507.8	3881.2	35.0	40.3	1790
1775	13.6	62.2	1	1513.6	5000.0	45.0	52.2	1770
1780	11.2	62.3	1	1511.2	5000.0	52.7	54.0	1775
1790	2.5	61.8	1	1502.5	2174.6	35.0	54.8	1770
1800	29.7	62.3	1	1529.7	5000.0	51.0	54.3	3080
1805	29.1	62.6	1	1529.1	5000.0	53.0	54.4	3080
1880	0.8	61.5	1	1500.8	1374.4*	35.0	56.4	3080
1900	17.9	62.0	1	1517.9	1639.7	35.0	56.3	3080
1905	8.4	62.1	1	1508.4	1665.9	35.0	56.3	3080
1910	9.7	62.3	1	1509.7	1682.6	35.0	56.2	3080
1915	7.4	62.5	1	1507.4	1671.9	35.0	56.3	3080
1920	13.7	62.6	1	1513.7	4078.9	35.0	42.7	1930
1930	6.4	62.6	1	1506.4	3470.9	35.0	48.1	1920
1935	14.6	62.5	1	1514.6	5000.0	44.7	49.7	1975
1940	23.6	62.4	1	1523.6	4450.5	35.0	44.2	1945
1945	7.1	62.3	1	1507.1	4368.4	35.0	45.1	1940
1950	15.3	62.3	1	1515.3	5000.0	36.3	46.0	1905
1955	19.0	62.5	1	1519.0	4812.6	35.0	45.7	1910
1960	15.9	62.7	1	1515.9	5000.0	35.4	44.5	1915
1965	23.0	62.7	1	1523.0	4804.0	35.0	43.7	2005
1970	18.8	62.7	1	1518.8	5000.0	35.8	40.2	1930
1975	10.6	62.7	1	1510.6	5000.0	45.6	49.4	1935
1980	17.4	62.6	1	1517.4	1690.3	35.0	56.3	3080
1982	2.7	62.5	1	1502.7	1612.1	35.0	56.3	3080
1985	6.5	62.5	1	1506.5	5000.0	36.1	36.1	1982
1990	12.6	62.6	1	1512.6	4548.4	35.0	50.2	1995
1995	15.6	62.7	1	1515.6	3603.8	35.0	53.3	2000
2000	8.1	62.9	1	1508.1	4051.8	35.0	51.1	1995
2005	11.2	62.8	1	1511.2	1676.7	35.0	56.3	3080

\* Needed Fire Flow not attained.



# Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
2010	11.2	62.8	1	1511.2	1672.6	35.0	56.3	3080
2015	11.2	62.8	1	1511.2	1629.4	35.0	56.3	3080
2020	11.2	62.8	1	1511.2	1622.1	35.0	56.1	660
2200	0.0	59.2	1	1500.0	5000.0	54.7	55.0	3060
2210	0.0	59.1	1	1500.0	5000.0	54.5	54.8	3060
2220	0.0	59.0	1	1500.0	5000.0	54.8	54.7	3060
2230	0.0	59.0	1	1500.0	5000.0	55.5	54.6	3060
2300	6.0	59.0	1	1506.0	2514.1	35.0	35.0	2370
2310	4.2	59.0	1	1504.2	1709.4	35.0	46.8	2370
2320	1.9	59.0	1	1501.9	1942.3	35.0	43.8	2370
2330	6.0	59.0	1	1506.0	1756.2	35.0	35.0	2370
2340	4.2	59.1	1	1504.2	1394.4*	35.0	43.1	2370
2350	1.9	59.0	1	1501.9	1514.6	35.0	40.5	2370
2360	9.1	59.0	1	1509.1	1416.5*	35.0	35.0	2370
2370	4.2	59.0	1	1504.2	1199.5*	35.0	41.2	2360
2380	1.9	59.2	1	1501.9	1283.5*	35.0	38.9	2370
2400	0.0	61.2	1	1500.0	5000.0	56.9	56.4	3060
2410	0.0	61.3	1	1500.0	5000.0	58.0	56.4	3060
2420	0.0	61.1	1	1500.0	5000.0	59.6	56.4	3060
2430	9.3	61.1	1	1509.3	5000.0	58.8	56.3	3060
2440	9.3	61.0	1	1509.3	5000.0	40.3	40.3	2460
2450	9.3	60.9	1	1509.3	2751.3	35.0	35.0	2460
2460	9.3	60.9	1	1509.3	2211.8	35.0	43.4	2470
2470	9.3	60.9	1	1509.3	2295.5	35.0	42.2	2460
3000	10.3	59.6	1	1510.3	5000.0	49.8	51.0	3005
3005	7.0	59.5	1	1507.0	5000.0	48.3	51.2	3010
3010	11.9	59.1	1	1511.9	5000.0	47.3	50.7	3015
3015	7.3	58.9	1	1507.3	5000.0	46.6	50.9	3010
3020	10.4	58.5	1	1510.4	5000.0	49.6	50.8	3300
3025	3.1	58.1	1	1503.1	5000.0	52.1	52.4	3065
3030	11.2	58.3	1	1511.2	5000.0	52.0	53.2	3065
3035	0.0	58.2	1	1500.0	5000.0	52.7	53.1	3030
3040	0.0	58.2	1	1500.0	5000.0	54.0	53.3	3060
3045	5.3	57.9	1	1505.3	5000.0	47.3	48.4	3050
3050	0.0	57.7	1	1500.0	5000.0	43.7	46.4	3055
3055	11.1	57.5	1	1511.1	5000.0	43.9	45.2	4080
3060	8.3	57.2	1	1508.3	5000.0	44.1	46.3	4040
3065	4.6	57.7	1	1504.6	5000.0	47.0	50.3	3070
3070	12.4	57.7	1	1512.4	5000.0	47.9	50.2	3075
3075	6.2	57.3	1	1506.2	5000.0	45.2	48.3	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3080	0.0	57.2	1	1500.0	5000.0	46.8	48.1	3075
3100	0.0	59.6	1	1500.0	1715.3	35.0	35.0	3105
3105	0.5	59.6	1	1500.5	1236.8*	35.0	45.9	3100
3110	2.5	59.4	1	1502.5	1681.3	35.0	48.3	3105
3115	3.7	59.2	1	1503.7	4121.2	35.0	41.3	3110
3130	16.2	59.0	1	1516.2	3220.8	35.0	37.2	3140
3140	9.0	58.7	1	1509.0	2549.2	35.0	41.6	3147
3145	9.0	58.6	1	1509.0	2828.5	35.0	34.9	3147
3147	9.3	58.5	1	1509.3	2174.4	35.0	43.6	3145
3150	16.2	58.5	1	1516.2	2862.3	35.0	41.2	3147
3200	6.4	58.3	1	1506.4	1604.3	35.0	46.6	3210
3205	16.4	58.1	1	1516.4	1875.4	35.0	34.9	3210
3210	0.0	58.1	1	1500.0	1255.3*	35.0	46.6	3205
3215	13.4	57.8	1	1513.4	1959.5	35.0	34.9	3220
3220	3.7	57.7	1	1503.7	1168.0*	35.0	48.5	3215
3225	11.7	58.3	1	1511.7	2569.3	35.0	37.0	3200
3230	17.9	58.1	1	1517.9	2578.9	35.0	38.7	3210
3235	13.4	57.9	1	1513.4	2447.9	35.0	34.9	3240
3240	3.7	57.8	1	1503.7	1132.2*	35.0	51.7	3220
3245	9.9	58.7	1	1509.9	2208.9	35.0	40.5	3247
3247	6.1	58.6	1	1506.1	1713.8	35.0	48.0	3245
3250	17.6	58.3	1	1517.6	3199.4	35.0	44.5	3245
3252	15.9	58.2	1	1515.9	2910.6	35.0	42.0	3247
3255	14.6	58.0	1	1514.6	4482.8	35.0	38.1	3259
3257	13.4	58.0	1	1513.4	3125.0	35.0	34.9	3259
3259	3.7	57.9	1	1503.7	2011.3	35.0	47.1	3257
3260	10.1	59.3	1	1510.1	2779.0	35.0	35.0	3262
3262	2.7	59.3	1	1502.7	1611.5	35.0	49.9	3260
3265	10.1	59.0	1	1510.1	2629.2	35.0	35.0	3267
3267	2.7	59.0	1	1502.7	1598.0	35.0	48.9	3265
3270	9.9	59.0	1	1509.9	3447.1	35.0	38.2	3275
3275	10.1	58.9	1	1510.1	1794.9	35.0	35.0	3277
3277	2.7	58.9	1	1502.7	1311.8*	35.0	45.2	3275
3280	7.4	58.5	1	1507.4	2443.4	35.0	46.5	3275
3285	7.4	58.6	1	1507.4	2461.6	35.0	46.5	3280
3290	26.1	58.7	1	1526.1	2547.2	35.0	46.8	3285
3295	20.1	58.9	1	1520.1	3215.9	35.0	45.6	3290
3300	12.7	58.2	1	1512.7	3892.8	35.0	38.6	3310
3305	8.3	58.1	1	1508.3	3105.6	35.0	34.9	3310
3310	4.0	58.0	1	1504.0	2047.6	35.0	46.9	3305

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3315	8.3	58.1	1	1508.3	2916.6	35.0	34.9	3320
3320	4.0	58.0	1	1504.0	2026.4	35.0	45.8	3315
3325	8.3	58.1	1	1508.3	3106.0	35.0	34.9	3330
3330	4.0	58.0	1	1504.0	2115.7	35.0	46.2	3325
3400	5.4	58.5	1	1505.4	4075.6	35.0	34.9	3405
3405	3.1	58.4	1	1503.1	1524.6	35.0	54.0	3400
3410	7.7	58.6	1	1507.7	4519.9	35.0	34.9	3415
3415	3.1	58.6	1	1503.1	1496.3*	35.0	54.8	3410
3420	5.4	58.7	1	1505.4	3594.6	35.0	34.9	3425
3425	3.1	58.7	1	1503.1	1483.7*	35.0	53.4	3420
3430	5.4	58.7	1	1505.4	3912.6	35.0	34.9	3435
3435	3.1	58.6	1	1503.1	1503.7	35.0	54.0	3430
3440	9.3	58.9	1	1509.3	3863.4	35.0	51.8	3450
3450	16.1	59.4	1	1516.1	4537.5	35.0	46.8	3460
3460	8.7	60.1	1	1508.7	3174.1	35.0	52.7	3450
3470	8.7	60.0	1	1508.7	1598.3	35.0	56.1	3480
3480	16.1	59.4	1	1516.1	3284.6	35.0	47.0	3470
3490	8.9	59.0	1	1508.9	1845.1	35.0	54.4	3500
3500	10.4	58.8	1	1510.4	4112.5	35.0	39.4	3550
3510	10.1	59.3	1	1510.1	4178.8	35.0	47.0	3550
3520	13.5	59.8	1	1513.5	4500.2	35.0	41.6	3530
3530	12.7	59.7	1	1512.7	3635.3	35.0	48.1	3520
3540	17.4	59.2	1	1517.4	3322.4	35.0	46.7	3550
3550	9.3	58.7	1	1509.3	1839.2	35.0	54.4	3500
3600	9.7	60.2	1	1509.7	3325.3	35.0	55.0	14135
3605	12.4	59.8	1	1512.4	5000.0	51.4	53.0	3615
3610	9.7	60.3	1	1509.7	3301.7	35.0	55.1	14135
3615	9.7	59.9	1	1509.7	5000.0	50.5	52.6	3625
3620	9.7	60.4	1	1509.7	3195.3	35.0	55.2	14135
3625	9.7	60.1	1	1509.7	5000.0	50.6	52.5	3615
3630	9.7	60.4	1	1509.7	1595.3	35.0	56.3	3080
3635	23.6	60.1	1	1523.6	5000.0	37.4	43.1	3685
3640	0.0	60.6	1	1500.0	3154.3	35.0	47.5	3643
3643	0.0	60.3	1	1500.0	3557.8	35.0	35.2	3660
3645	3.5	60.2	1	1503.5	4754.5	35.0	38.1	3643
3650	4.0	61.3	1	1504.0	3500.6	35.0	55.1	3080
3660	0.0	60.5	1	1500.0	1634.1	35.0	35.0	3670
3665	22.2	60.3	1	1522.2	4434.6	35.0	40.6	3697
3670	0.0	60.5	1	1500.0	1351.5*	35.0	35.1	3680
3675	0.0	60.4	1	1500.0	4055.5	35.0	45.9	3665

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
3680	0.0	60.7	1	1500.0	1065.3*	35.0	43.9	3670
3685	6.8	59.7	1	1506.8	3099.7	35.0	47.3	3695
3690	0.0	60.8	1	1500.0	1290.1*	35.0	37.0	3670
3695	17.5	59.8	1	1517.5	3801.3	35.0	40.9	3685
3697	17.3	60.0	1	1517.3	3411.4	35.0	45.9	3695
3698	0.0	60.0	1	1500.0	3574.9	35.0	45.9	3695
4000	13.8	57.6	1	1513.8	3670.1	35.0	38.3	4050
4010	11.8	57.6	1	1511.8	2915.8	35.0	48.9	4000
4020	11.8	57.5	1	1511.8	4040.4	35.0	41.3	4030
4030	14.2	57.4	1	1514.2	2791.9	35.0	44.2	4040
4040	8.2	57.4	1	1508.2	2946.2	35.0	42.5	4030
4050	5.9	57.6	1	1505.9	2778.1	35.0	38.4	4060
4060	9.2	57.5	1	1509.2	2600.6	35.0	41.0	4050
4070	17.0	57.6	1	1517.0	2626.4	35.0	40.8	4060
4080	6.2	57.6	1	1506.2	2980.2	35.0	39.0	4070
4100	6.2	57.5	1	1506.2	3768.0	35.0	41.4	14100
4105	14.4	57.7	1	1514.4	5000.0	41.0	42.6	4100
4110	8.3	57.8	1	1508.3	3661.2	35.0	51.4	4105
4115	6.2	57.7	1	1506.2	3719.4	35.0	40.9	14120
4120	14.4	57.8	1	1514.4	5000.0	39.8	41.4	4115
4125	8.3	58.1	1	1508.3	3661.8	35.0	51.0	4120
4130	3.1	57.7	1	1503.1	4116.4	35.0	40.6	14140
4135	11.4	57.8	1	1511.4	5000.0	38.9	41.6	4130
4140	7.4	57.9	1	1507.4	3643.0	35.0	35.1	4150
4145	7.4	58.1	1	1507.4	4132.5	35.0	35.2	4155
4150	4.3	58.0	1	1504.3	2167.7	35.0	48.5	4140
4155	4.3	58.2	1	1504.3	2287.7	35.0	49.6	4145
4200	6.9	58.4	1	1506.9	5000.0	37.5	44.9	4230
4205	6.9	58.5	1	1506.9	4955.2	35.0	43.9	4240
4210	6.9	59.1	1	1506.9	5000.0	37.9	45.2	4250
4220	8.8	58.3	1	1508.8	3665.3	35.0	50.6	4225
4225	22.9	58.2	1	1522.9	5000.0	38.0	43.0	4260
4230	6.9	58.5	1	1506.9	3527.4	35.0	50.9	4235
4235	14.7	58.3	1	1514.7	5000.0	39.0	43.6	4270
4240	6.9	58.6	1	1506.9	3508.0	35.0	50.6	4205
4245	14.7	58.4	1	1514.7	5000.0	39.4	43.9	4240
4250	6.9	58.7	1	1506.9	3578.5	35.0	51.5	4255
4255	14.7	58.6	1	1514.7	5000.0	41.3	45.6	4250
4260	8.8	58.1	1	1508.8	3242.3	35.0	49.2	4267
4265	12.2	58.0	1	1512.2	4394.8	35.0	34.9	4267

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4266	0.0	57.9	1	1500.0	4003.7	35.0	41.2	14170
4267	3.1	57.9	1	1503.1	2145.1	35.0	51.0	4265
4270	7.8	58.2	1	1507.8	3255.8	35.0	49.4	4278
4275	11.2	58.1	1	1511.2	4499.4	35.0	34.9	4278
4278	3.4	58.0	1	1503.4	2320.2	35.0	50.5	4275
4280	7.8	58.4	1	1507.8	3296.4	35.0	50.0	4285
4285	7.8	58.3	1	1507.8	4648.7	35.0	42.4	4280
4290	7.8	58.8	1	1507.8	3403.8	35.0	51.0	4295
4295	7.8	58.7	1	1507.8	5000.0	36.0	42.8	4290
4300	8.2	58.8	1	1508.2	4900.4	35.0	44.1	4310
4310	8.2	59.1	1	1508.2	4534.7	35.0	44.7	4320
4320	8.2	59.4	1	1508.2	4557.7	35.0	44.4	4310
4330	8.2	59.5	1	1508.2	4980.4	35.0	44.0	4320
4340	11.6	58.7	1	1511.6	4899.4	35.0	34.9	4380
4350	11.6	59.0	1	1511.6	4514.3	35.0	34.9	4390
4360	8.2	59.1	1	1508.2	4531.8	35.0	44.2	4390
4370	8.2	59.3	1	1508.2	4950.5	35.0	43.8	4360
4380	3.4	58.6	1	1503.4	2477.4	35.0	51.1	4340
4390	3.4	58.8	1	1503.4	2406.0	35.0	50.6	4350
4400	5.7	59.6	1	1505.7	3008.0	35.0	40.5	4410
4410	11.6	59.6	1	1511.6	2677.0	35.0	43.1	4430
4420	5.9	59.6	1	1505.9	2766.1	35.0	35.0	4430
4430	4.6	59.6	1	1504.6	1734.3	35.0	48.6	4420
4500	19.6	60.9	1	1519.6	5000.0	45.0	49.5	4510
4510	33.6	60.5	1	1533.6	5000.0	45.5	48.3	3675
4520	61.2	60.0	1	1561.2	5000.0	46.4	48.6	3698
4530	8.8	59.8	1	1508.8	5000.0	48.2	50.3	4520
4540	4.8	59.5	1	1504.8	5000.0	52.0	51.6	4590
4550	10.5	59.4	1	1510.5	5000.0	51.3	51.0	4590
4560	4.8	59.2	1	1504.8	5000.0	50.4	50.2	4590
4570	2.7	59.6	1	1502.7	5000.0	50.4	49.8	4590
4580	2.7	59.6	1	1502.7	5000.0	49.1	48.5	4590
4590	2.7	59.0	1	1502.7	5000.0	47.4	49.2	4580
4600	12.7	61.0	1	1512.7	2583.7	35.0	42.4	4610
4610	0.0	60.7	1	1500.0	2321.2	35.0	45.9	4620
4620	0.0	60.2	1	1500.0	2559.5	35.0	42.8	4610
4700	2.6	61.3	1	1502.6	5000.0	46.8	48.8	4710
4710	25.0	61.0	1	1525.0	5000.0	45.7	49.3	4720
4720	22.3	60.8	1	1522.3	5000.0	44.3	46.0	4730
4730	0.0	60.6	1	1500.0	5000.0	44.8	46.0	4720

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
4740	23.2	60.5	1	1523.2	5000.0	45.3	47.7	4750
4750	6.2	60.5	1	1506.2	5000.0	46.5	47.4	4740
4800	55.3	61.9	1	1555.3	5000.0	50.0	51.2	620
4810	11.6	61.6	1	1511.6	4223.1	35.0	36.3	4870
4820	0.0	61.5	1	1500.0	3258.8	35.0	49.2	4830
4830	0.0	61.3	1	1500.0	3950.6	35.0	43.5	4820
4840	0.0	60.7	1	1500.0	3204.3	35.0	50.0	4830
4850	0.2	61.1	1	1500.2	3880.7	35.0	35.0	4870
4870	65.2	61.1	1	1565.2	897.7*	35.0	56.7	3060
4880	0.0	60.9	1	1500.0	3913.9	35.0	46.9	4830
4900	45.5	62.5	1	1545.5	5000.0	51.0	51.7	630
4910	6.9	62.5	1	1506.9	5000.0	49.4	50.5	4920
4920	0.0	62.6	1	1500.0	5000.0	49.9	50.4	4910
4930	1.0	62.6	1	1501.0	5000.0	50.0	50.8	640
4940	54.7	62.7	1	1554.7	5000.0	46.3	47.4	4947
4947	14.5	62.5	1	1514.5	5000.0	39.8	40.1	5190
4950	1.5	62.5	1	1501.5	5000.0	47.0	49.4	4960
4955	14.5	62.4	1	1514.5	4028.1	35.0	54.1	4947
4960	1.5	62.1	1	1501.5	5000.0	46.3	47.1	5180
4965	4.6	62.1	1	1504.6	5000.0	45.9	45.8	5180
4970	0.0	61.6	1	1500.0	5000.0	45.4	47.0	5110
4975	18.2	61.5	1	1518.2	5000.0	46.4	47.6	5120
4977	6.8	62.1	1	1506.8	5000.0	46.7	49.3	4975
4980	6.8	62.2	1	1506.8	5000.0	50.1	50.9	5130
4985	6.8	62.1	1	1506.8	5000.0	49.5	50.5	5170
4990	31.0	62.0	1	1531.0	5000.0	50.6	50.8	5150
4995	0.0	62.3	1	1500.0	5000.0	49.5	50.2	5200
5000	14.9	59.2	1	1514.9	5000.0	53.3	53.2	4278
5010	0.0	59.3	1	1500.0	5000.0	53.0	53.5	4590
5020	0.0	59.5	1	1500.0	5000.0	53.1	53.1	4590
5030	7.9	59.7	1	1507.9	5000.0	53.3	52.8	4590
5040	0.0	60.0	1	1500.0	5000.0	53.2	53.3	4590
5050	0.0	60.1	1	1500.0	5000.0	53.2	53.7	3080
5060	0.0	60.3	1	1500.0	5000.0	52.7	53.8	3080
5070	0.0	60.9	1	1500.0	5000.0	52.8	53.8	3080
5080	0.0	61.4	1	1500.0	5000.0	53.7	53.8	3080
5090	0.0	62.3	1	1500.0	5000.0	54.1	53.8	3080
5100	0.0	61.7	1	1500.0	3347.2	35.0	55.1	3080
5110	7.5	61.7	1	1507.5	3408.3	35.0	50.2	5120
5120	10.5	61.5	1	1510.5	4364.3	35.0	43.9	5110

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
5130	10.5	60.7	1	1510.5	3327.5	35.0	47.7	5140
5140	16.7	61.1	1	1516.7	4227.9	35.0	39.2	5130
5150	6.8	61.3	1	1506.8	3730.2	35.0	48.3	5140
5160	9.3	61.5	1	1509.3	4827.0	35.0	44.1	5140
5170	6.8	62.0	1	1506.8	3851.1	35.0	50.1	5160
5180	7.7	61.9	1	1507.7	3993.7	35.0	50.7	4965
5190	6.2	62.5	1	1506.2	4341.6	35.0	45.7	4947
5200	5.0	62.3	1	1505.0	5000.0	48.7	49.6	5240
5205	5.0	62.4	1	1505.0	5000.0	47.2	49.6	5210
5210	10.1	62.5	1	1510.1	5000.0	48.2	49.3	5250
5215	5.0	62.6	1	1505.0	2537.8	35.0	55.6	3080
5220	5.0	62.7	1	1505.0	5000.0	48.8	50.4	5215
5230	5.3	62.7	1	1505.3	5000.0	48.3	51.2	5220
5235	62.3	62.4	1	1562.3	5000.0	48.8	51.8	5230
5240	3.8	62.2	1	1503.8	2081.5	35.0	56.0	3080
5250	7.7	62.4	1	1507.7	3790.8	35.0	48.3	5240
5255	7.6	62.4	1	1507.6	2088.6	35.0	55.9	3080
5260	15.1	62.6	1	1515.1	5000.0	48.6	50.1	5277
5265	7.6	62.8	1	1507.6	5000.0	50.5	51.9	5220
5270	1.4	62.6	1	1501.4	3563.3	35.0	34.9	5277
5277	0.0	62.6	1	1500.0	1327.1*	35.0	56.4	3080
5279	16.6	62.8	1	1516.6	3370.0	35.0	43.1	5280
5280	54.0	62.8	1	1554.0	3754.8	35.0	38.1	5279
5290	0.0	63.1	1	1500.0	2794.4	35.0	52.3	5280
5292	0.0	62.9	1	1500.0	2359.1	35.0	55.8	3080
5295	3.7	63.1	1	1503.7	4017.0	35.0	40.7	23120
5297	0.0	62.0	1	1500.0	4872.5	35.0	41.8	23200
5500	4.8	59.6	1	1504.8	4066.0	35.0	49.7	5530
5510	4.8	59.4	1	1504.8	3980.8	35.0	48.5	5540
5520	4.8	59.3	1	1504.8	3650.0	35.0	44.7	5550
5530	4.8	60.1	1	1504.8	5000.0	35.8	44.0	5500
5540	4.8	60.0	1	1504.8	4669.1	35.0	40.1	5550
5550	4.8	60.0	1	1504.8	3601.3	35.0	44.5	5520
6000	0.0	62.3	1	1500.0	5000.0	54.2	53.8	3080
7000	9.3	61.5	1	1509.3	5000.0	58.0	55.8	3080
7005	9.3	61.6	1	1509.3	5000.0	57.7	55.7	3080
7010	26.2	61.8	1	1526.2	5000.0	57.5	55.7	3080
7015	18.5	61.8	1	1518.5	5000.0	57.2	55.6	3080
7020	13.8	62.0	1	1513.8	5000.0	57.2	55.6	3080
7025	5.9	60.7	1	1505.9	5000.0	56.0	55.5	3080

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7030	13.8	60.8	1	1513.8	5000.0	56.1	55.5	3080
7035	23.3	61.0	1	1523.3	5000.0	56.3	55.4	3080
7040	1.0	61.7	1	1501.0	5000.0	56.1	55.4	3080
7045	0.0	61.8	1	1500.0	5000.0	55.8	55.3	9380
7050	10.9	62.1	1	1510.9	5000.0	55.9	55.4	3080
7055	10.9	62.2	1	1510.9	5000.0	56.0	55.4	3080
7060	0.0	62.8	1	1500.0	5000.0	56.6	55.4	3080
7070	0.0	62.4	1	1500.0	5000.0	55.6	55.4	3080
7080	2.0	62.2	1	1502.0	5000.0	57.4	55.3	3080
7100	9.9	61.0	1	1509.9	3459.9	35.0	56.3	3080
7110	7.4	61.6	1	1507.4	2760.6	35.0	40.8	7140
7120	11.7	61.7	1	1511.7	4926.8	35.0	38.1	7150
7130	12.4	62.1	1	1512.4	3843.4	35.0	48.4	7160
7140	7.4	61.1	1	1507.4	1925.2	35.0	52.1	7110
7150	11.7	61.6	1	1511.7	3459.9	35.0	45.3	7140
7160	12.4	62.3	1	1512.4	2807.1	35.0	54.5	7130
7200	7.8	60.8	1	1507.8	5000.0	53.4	53.9	7210
7210	7.3	60.9	1	1507.3	5000.0	52.8	53.9	7200
7300	2.1	61.1	1	1502.1	3333.9	35.0	47.2	7340
7310	6.2	61.3	1	1506.2	4553.4	35.0	46.7	7300
7320	6.2	61.5	1	1506.2	4698.1	35.0	40.3	7330
7330	5.2	61.2	1	1505.2	3523.5	35.0	50.0	7340
7340	5.2	61.4	1	1505.2	4106.2	35.0	39.0	7300
7350	6.2	61.7	1	1506.2	4967.8	35.0	43.1	7370
7360	7.8	61.9	1	1507.8	3116.6	35.0	49.0	7380
7370	6.2	61.4	1	1506.2	4327.2	35.0	45.0	7410
7380	7.8	61.8	1	1507.8	2786.2	35.0	48.3	7425
7390	1.9	61.4	1	1501.9	939.5*	35.0	46.4	7425
7400	12.1	61.2	1	1512.1	3942.0	35.0	43.7	7405
7405	12.1	60.6	1	1512.1	1587.2	35.0	56.7	3060
7410	21.9	61.0	1	1521.9	4340.8	35.0	45.0	7405
7415	13.1	61.6	1	1513.1	2650.0	35.0	34.5	7425
7420	15.1	61.3	1	1515.1	1309.6*	35.0	34.8	7425
7425	6.7	61.1	1	1506.7	788.4*	35.0	35.5	7450
7430	12.1	61.1	1	1512.1	3827.8	35.0	43.4	7435
7435	12.1	60.7	1	1512.1	1587.4	35.0	56.7	3060
7440	20.0	60.9	1	1520.0	4360.7	35.0	44.5	7435
7445	14.8	61.4	1	1514.8	2652.7	35.0	48.9	7425
7450	9.1	61.6	1	1509.1	599.5*	35.0	45.0	7425
7455	12.1	61.1	1	1512.1	3848.7	35.0	43.2	7460

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7460	12.1	60.7	1	1512.1	1591.5	35.0	56.7	3060
7465	19.6	61.0	1	1519.6	4528.0	35.0	43.9	7460
7470	14.8	61.4	1	1514.8	2787.8	35.0	49.3	7445
7475	0.4	62.0	1	1500.4	5000.0	57.0	55.4	3080
7480	13.8	61.1	1	1513.8	4094.1	35.0	42.8	7485
7485	12.1	60.7	1	1512.1	1595.8	35.0	56.7	3060
7490	24.9	61.1	1	1524.9	4934.7	35.0	43.4	7485
7495	20.5	61.4	1	1520.5	3820.2	35.0	48.4	7470
7500	10.8	62.0	1	1510.8	5000.0	57.1	55.4	3080
7505	4.3	61.2	1	1504.3	4470.9	35.0	41.2	7480
7510	8.7	61.1	1	1508.7	3904.3	35.0	47.7	7530
7515	8.7	61.4	1	1508.7	5000.0	38.1	44.8	7490
7520	8.7	61.8	1	1508.7	5000.0	38.1	49.7	7495
7525	6.0	62.2	1	1506.0	5000.0	57.4	55.3	3080
7530	4.3	61.5	1	1504.3	3234.4	35.0	49.1	7555
7535	8.7	61.7	1	1508.7	3737.4	35.0	52.7	7565
7540	8.7	62.0	1	1508.7	3922.8	35.0	53.8	7570
7545	4.3	62.2	1	1504.3	5000.0	57.3	55.3	3080
7550	8.7	61.5	1	1508.7	4308.3	35.0	47.9	7505
7555	8.7	61.6	1	1508.7	3331.2	35.0	48.3	7530
7560	8.7	61.8	1	1508.7	4213.3	35.0	46.3	7577
7565	17.3	62.0	1	1517.3	3361.3	35.0	49.7	7590
7570	17.3	62.3	1	1517.3	3592.5	35.0	54.5	7595
7573	8.7	62.7	1	1508.7	5000.0	40.0	47.2	7550
7575	8.7	62.6	1	1508.7	5000.0	57.6	55.3	3080
7577	8.7	61.9	1	1508.7	4966.1	35.0	39.7	7560
7580	0.0	62.0	1	1500.0	5000.0	44.8	45.1	7605
7585	8.7	62.1	1	1508.7	4809.5	35.0	44.9	7577
7590	16.4	62.3	1	1516.4	2584.4	35.0	54.5	7565
7595	16.4	62.5	1	1516.4	3647.9	35.0	53.4	7590
7600	8.2	62.8	1	1508.2	5000.0	58.0	55.3	3080
7605	6.6	62.4	1	1506.6	1806.7	35.0	56.6	3060
7610	7.7	62.4	1	1507.7	5000.0	38.9	47.4	7615
7615	15.5	62.5	1	1515.5	3215.6	35.0	56.0	7620
7620	15.7	62.7	1	1515.7	5000.0	35.7	46.3	7615
7625	7.9	63.0	1	1507.9	5000.0	58.3	55.2	3080
7700	15.5	62.5	1	1515.5	5000.0	57.4	54.9	14135
7705	14.7	62.9	1	1514.7	1677.4	35.0	56.6	3080
7710	14.6	63.3	1	1514.6	5000.0	40.1	49.3	7705
7715	7.7	63.5	1	1507.7	3720.9	35.0	55.7	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7720	22.3	62.8	1	1522.3	5000.0	57.1	54.9	14135
7725	16.5	63.1	1	1516.5	1693.6	35.0	56.5	3080
7730	13.1	63.3	1	1513.1	5000.0	36.5	46.4	7735
7735	6.7	63.4	1	1506.7	1675.7	35.0	56.6	3080
7740	12.9	62.9	1	1512.9	5000.0	56.8	54.8	14135
7745	12.5	63.2	1	1512.5	4681.0	35.0	55.0	3080
7750	17.2	63.2	1	1517.2	5000.0	43.7	51.7	7770
7755	13.4	63.3	1	1513.4	4822.3	35.0	38.0	8700
7760	21.0	62.9	1	1521.0	5000.0	54.2	54.7	3080
7765	22.4	63.0	1	1522.4	1659.5	35.0	56.5	3080
7770	22.1	63.0	1	1522.1	5000.0	35.5	46.8	7765
7775	9.7	63.2	1	1509.7	2370.1	35.0	56.2	3080
7780	20.8	62.8	1	1520.8	5000.0	53.5	54.6	3080
7785	23.9	62.8	1	1523.9	1670.7	35.0	56.4	3080
7790	23.5	62.8	1	1523.5	4953.8	35.0	46.1	7785
7795	8.3	62.9	1	1508.3	2355.7	35.0	56.1	3080
7800	3.6	62.7	1	1503.6	5000.0	54.0	54.5	3080
7805	1.2	62.8	1	1501.2	5000.0	53.5	54.6	3080
7810	1.2	62.8	1	1501.2	1760.2	35.0	43.6	7815
7815	1.5	62.8	1	1501.5	1857.4	35.0	41.1	7810
7820	4.0	62.8	1	1504.0	5000.0	39.5	50.1	7815
7825	2.5	63.7	1	1502.5	5000.0	46.9	51.2	7915
7830	6.2	62.8	1	1506.2	5000.0	43.8	50.1	7835
7835	2.0	62.8	1	1502.0	1677.4	35.0	56.4	3080
7840	4.6	62.9	1	1504.6	5000.0	43.7	50.5	7835
7845	3.6	63.1	1	1503.6	5000.0	53.2	53.3	7937
7850	5.7	62.9	1	1505.7	4776.3	35.0	42.6	7855
7855	3.2	62.9	1	1503.2	2881.4	35.0	39.5	7860
7860	3.1	63.0	1	1503.1	2852.0	35.0	40.1	7855
7865	3.1	63.0	1	1503.1	3432.0	35.0	35.1	7870
7870	5.2	63.1	1	1505.2	2143.9	35.0	50.4	7865
7900	14.7	62.7	1	1514.7	5000.0	55.1	54.5	3080
7905	12.9	62.7	1	1512.9	5000.0	48.6	54.5	7910
7910	12.3	62.7	1	1512.3	5000.0	51.5	53.7	7820
7915	2.5	62.9	1	1502.5	5000.0	50.7	50.9	7917
7917	0.0	63.0	1	1500.0	1075.6*	35.0	56.7	3060
7920	6.3	62.8	1	1506.3	5000.0	53.3	54.5	3080
7925	6.2	62.8	1	1506.2	5000.0	48.3	54.5	3080
7930	6.2	62.8	1	1506.2	5000.0	52.2	54.3	7925
7935	4.6	63.0	1	1504.6	5000.0	53.3	54.4	7915

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
7937	0.3	63.1	1	1500.3	3431.0	35.0	55.4	3080
7940	13.3	62.8	1	1513.3	5000.0	52.0	54.4	7850
7945	13.3	62.9	1	1513.3	5000.0	48.8	54.5	3080
7950	10.2	63.0	1	1510.2	5000.0	54.7	54.5	3080
7955	5.6	63.2	1	1505.6	5000.0	55.9	54.5	3080
8000	8.7	62.6	1	1508.7	3317.7	35.0	39.3	8005
8005	10.1	62.6	1	1510.1	1468.1*	35.0	51.5	8010
8010	8.3	62.7	1	1508.3	1699.7	35.0	35.0	8015
8015	2.6	62.8	1	1502.6	709.1*	35.0	56.5	8010
8020	8.7	62.7	1	1508.7	3900.1	35.0	36.4	8000
8025	10.5	62.7	1	1510.5	1532.2	35.0	53.9	8035
8030	13.4	62.8	1	1513.4	2087.9	35.0	34.7	8035
8035	7.3	62.5	1	1507.3	852.1*	35.0	56.6	8030
8040	16.1	62.8	1	1516.1	5000.0	41.2	42.2	8045
8045	16.1	62.8	1	1516.1	4701.0	35.0	37.9	8050
8050	13.6	63.0	1	1513.6	4370.8	35.0	36.3	8055
8055	5.6	63.3	1	1505.6	3780.9	35.0	39.1	8200
8060	13.0	62.9	1	1513.0	3448.7	35.0	35.1	8075
8065	9.3	62.8	1	1509.3	2091.9	35.0	40.4	8090
8070	12.4	63.1	1	1512.4	1849.8	35.0	52.5	8065
8075	10.4	63.0	1	1510.4	1039.0*	35.0	56.7	3060
8080	5.3	63.0	1	1505.3	1855.9	35.0	35.0	8085
8085	5.3	63.0	1	1505.3	647.4*	35.0	56.9	3060
8090	68.5	63.3	1	1568.5	1840.9	35.0	40.5	8140
8095	11.4	63.8	1	1511.4	1849.4	35.0	34.5	8140
8100	0.0	63.4	1	1500.0	2291.0	35.0	37.2	8105
8105	7.5	63.6	1	1507.5	2046.4	35.0	35.5	8145
8110	4.7	63.7	1	1504.7	1829.6	35.0	35.0	8145
8115	4.7	63.8	1	1504.7	1962.4	35.0	35.2	8125
8120	7.5	64.0	1	1507.5	1824.5	35.0	35.1	8130
8125	1.5	64.0	1	1501.5	1699.6	35.0	41.3	8115
8130	1.5	64.1	1	1501.5	1581.3	35.0	41.3	8120
8135	3.3	63.6	1	1503.3	1885.1	35.0	37.5	8140
8140	0.6	63.3	1	1500.6	1517.3	35.0	43.2	8095
8145	19.8	63.7	1	1519.8	1430.0*	35.0	44.8	8110
8200	0.6	63.6	1	1500.6	2911.8	35.0	35.2	8205
8205	0.6	63.8	1	1500.6	1203.1*	35.0	35.2	8210
8210	0.0	64.0	1	1500.0	860.4*	35.0	48.0	8205
8215	8.9	64.0	1	1508.9	2634.9	35.0	39.0	8230
8220	14.2	64.5	1	1514.2	1622.1	35.0	55.7	8215

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8225	12.3	64.7	1	1512.3	3346.7	35.0	35.5	8240
8230	14.2	64.3	1	1514.2	2308.2	35.0	36.5	8250
8235	14.2	64.6	1	1514.2	1572.4	35.0	54.5	8230
8240	14.2	64.9	1	1514.2	3118.3	35.0	35.2	8265
8250	7.1	64.6	1	1507.1	1907.2	35.0	45.2	8255
8255	7.1	64.7	1	1507.1	1514.4	35.0	35.3	8270
8260	7.1	64.7	1	1507.1	1522.7	35.0	35.2	8295
8265	11.7	65.1	1	1511.7	2874.0	35.0	38.6	8260
8270	3.7	64.7	1	1503.7	1397.5*	35.0	36.5	8275
8275	3.7	64.8	1	1503.7	1389.3*	35.0	35.4	8280
8280	3.7	64.9	1	1503.7	1334.9*	35.0	36.3	8285
8285	5.7	64.9	1	1505.7	1335.5*	35.0	36.2	8280
8290	5.7	64.9	1	1505.7	1398.6*	35.0	35.2	8285
8295	1.0	64.8	1	1501.0	1443.2*	35.0	35.8	8290
8300	2.7	64.1	1	1502.7	4049.4	35.0	37.5	8310
8310	0.0	64.5	1	1500.0	3786.8	35.0	36.1	8320
8320	0.6	64.7	1	1500.6	3443.4	35.0	35.1	8360
8330	0.0	64.6	1	1500.0	2236.1	35.0	38.8	8350
8340	0.0	64.7	1	1500.0	1779.8	35.0	35.0	8350
8350	3.1	64.7	1	1503.1	771.9*	35.0	56.8	3060
8360	0.0	64.8	1	1500.0	1621.3	35.0	35.0	8370
8370	0.0	64.8	1	1500.0	1218.6*	35.0	46.8	8360
8380	4.6	64.5	1	1504.6	1585.5	35.0	51.7	8350
8400	5.1	63.4	1	1505.1	5000.0	50.0	55.1	3080
8410	0.4	63.5	1	1500.4	5000.0	42.2	43.8	8430
8420	0.0	63.5	1	1500.0	5000.0	49.7	49.8	8450
8430	0.4	63.5	1	1500.4	2760.6	35.0	38.5	8440
8440	0.7	63.5	1	1500.7	2419.8	35.0	35.1	8460
8450	0.6	63.6	1	1500.6	5000.0	38.7	47.1	8440
8460	0.8	63.7	1	1500.8	417.0*	34.8	34.9	8470
8470	0.8	63.8	1	1500.8	390.2*	34.8	38.1	8460
8500	0.8	63.3	1	1500.8	5000.0	52.5	54.3	8510
8510	1.1	63.4	1	1501.1	5000.0	50.5	50.5	8515
8515	0.0	63.4	1	1500.0	1259.9*	35.0	56.7	3060
8520	0.6	63.6	1	1500.6	5000.0	48.3	48.1	8525
8525	4.8	63.4	1	1504.8	1248.3*	35.0	56.7	3060
8530	0.2	63.5	1	1500.2	5000.0	47.8	49.4	8540
8540	2.1	63.6	1	1502.1	5000.0	47.8	49.5	8530
8550	16.0	63.8	1	1516.0	5000.0	49.3	49.0	8560
8560	15.8	63.5	1	1515.8	1927.1	35.0	56.4	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8600	4.6	63.3	1	1504.6	3270.4	35.0	55.9	3080
8610	14.9	63.7	1	1514.9	3978.9	35.0	52.8	8600
8620	5.0	63.6	1	1505.0	4098.6	35.0	52.8	8600
8630	16.2	63.8	1	1516.2	3863.9	35.0	54.2	8650
8640	1.1	63.6	1	1501.1	3591.5	35.0	47.3	8660
8650	6.4	63.8	1	1506.4	3703.9	35.0	51.4	8640
8660	0.7	63.8	1	1500.7	3943.4	35.0	43.8	8640
8670	2.8	63.8	1	1502.8	4021.5	35.0	45.6	8660
8680	4.6	63.9	1	1504.6	3575.2	35.0	55.6	3080
8690	0.0	64.2	1	1500.0	5000.0	44.8	54.6	3080
8700	5.2	63.3	1	1505.2	4740.0	35.0	38.9	7755
8710	7.4	63.3	1	1507.4	1327.2*	35.0	56.7	3060
8720	3.3	63.4	1	1503.3	1232.1*	35.0	56.8	3060
8725	6.2	63.2	1	1506.2	958.1*	35.0	56.9	3060
8730	3.8	63.4	1	1503.8	1048.6*	35.0	56.8	3060
8735	7.6	63.4	1	1507.6	888.6*	35.0	56.9	3060
8740	5.4	63.0	1	1505.4	4172.3	35.0	35.3	8745
8745	5.4	63.3	1	1505.4	748.0*	35.0	56.9	3060
8750	5.3	63.3	1	1505.3	3687.7	35.0	33.7	8755
8755	139.1	62.0	1	1639.1	791.9*	35.0	56.9	3060
8760	6.8	62.8	1	1506.8	3327.1	35.0	34.4	8770
8765	2.0	63.2	1	1502.0	832.2*	35.0	56.9	3060
8770	1.5	62.2	1	1501.5	849.1*	35.0	56.9	3060
8775	4.6	62.4	1	1504.6	5000.0	53.2	55.0	8770
8800	0.6	63.3	1	1500.6	896.6*	35.0	56.9	3060
8810	7.3	63.5	1	1507.3	2939.2	35.0	52.4	8820
8820	8.7	63.5	1	1508.7	2727.0	35.0	49.4	8830
8830	2.9	63.5	1	1502.9	2369.4	35.0	40.9	8845
8840	1.0	63.4	1	1501.0	1543.7	35.0	35.0	8845
8845	1.0	63.4	1	1501.0	1265.4*	35.0	43.6	8840
8850	1.3	63.2	1	1501.3	1476.9*	35.0	49.9	8845
8900	9.8	63.9	1	1509.8	5000.0	56.4	55.2	3080
8910	17.8	63.8	1	1517.8	5000.0	53.5	55.2	8920
8920	8.0	63.7	1	1508.0	5000.0	51.8	53.3	8930
8930	4.9	63.6	1	1504.9	5000.0	49.3	51.1	8940
8940	0.3	63.5	1	1500.3	5000.0	47.8	51.1	8950
8950	0.3	63.4	1	1500.3	5000.0	47.6	51.1	8940
8960	1.8	63.1	1	1501.8	5000.0	52.0	52.6	9190
8970	1.2	63.0	1	1501.2	5000.0	50.2	53.0	8975
8975	3.3	63.0	1	1503.3	5000.0	50.3	53.1	8970

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
8980	40.7	62.9	1	1540.7	5000.0	51.6	54.3	8970
9000	2.7	64.7	1	1502.7	5000.0	47.2	50.0	9010
9010	0.1	64.8	1	1500.1	5000.0	44.9	50.3	9000
9020	0.0	65.0	1	1500.0	5000.0	45.4	45.4	9685
9030	0.8	64.9	1	1500.8	5000.0	49.0	51.4	9685
9040	0.0	64.9	1	1500.0	5000.0	48.0	52.5	9050
9050	0.0	64.9	1	1500.0	5000.0	49.9	51.9	9060
9060	6.3	64.8	1	1506.3	5000.0	50.5	51.8	9050
9070	7.0	64.7	1	1507.0	5000.0	52.6	54.4	9060
9080	7.0	64.4	1	1507.0	5000.0	56.1	55.2	3080
9090	3.6	64.3	1	1503.6	5000.0	57.0	55.3	3080
9100	7.8	64.2	1	1507.8	5000.0	55.3	55.4	3080
9110	0.0	64.1	1	1500.0	5000.0	53.0	52.8	9115
9115	3.1	63.9	1	1503.1	4269.7	35.0	55.5	9110
9120	2.9	63.9	1	1502.9	5000.0	51.8	55.3	9740
9130	2.9	63.7	1	1502.9	5000.0	53.4	55.5	3080
9140	1.1	63.6	1	1501.1	5000.0	56.4	55.6	3080
9150	6.2	63.5	1	1506.2	5000.0	52.9	54.2	9730
9160	0.0	63.4	1	1500.0	5000.0	51.0	53.0	9170
9170	0.0	63.4	1	1500.0	5000.0	51.6	52.9	9160
9175	5.0	63.6	1	1505.0	3174.1	35.0	51.9	9505
9180	0.0	63.3	1	1500.0	5000.0	51.4	54.9	9920
9190	0.0	63.1	1	1500.0	5000.0	51.4	52.8	8960
9200	5.5	62.8	1	1505.5	3573.1	35.0	44.8	9210
9210	5.5	62.9	1	1505.5	3287.6	35.0	45.0	9240
9220	4.8	62.5	1	1504.8	4174.7	35.0	48.8	9230
9230	7.0	62.6	1	1507.0	4796.8	35.0	38.8	9240
9240	2.6	62.7	1	1502.6	3620.8	35.0	41.0	9210
9250	5.0	62.1	1	1505.0	4269.8	35.0	50.1	9260
9260	7.3	62.3	1	1507.3	5000.0	36.9	45.1	9250
9270	4.8	61.8	1	1504.8	3767.6	35.0	48.5	9340
9280	6.4	61.9	1	1506.4	4657.1	35.0	35.6	9340
9300	0.0	60.9	1	1500.0	3449.5	35.0	43.9	9310
9310	0.0	61.0	1	1500.0	3486.5	35.0	43.4	9300
9320	2.8	60.7	1	1502.8	3512.1	35.0	51.3	9330
9330	14.7	60.8	1	1514.7	4309.3	35.0	40.9	9310
9333	2.3	60.9	1	1502.3	4231.2	35.0	39.0	9800
9337	3.4	60.8	1	1503.4	3777.2	35.0	37.9	9810
9340	5.4	61.6	1	1505.4	4291.6	35.0	36.4	9345
9345	3.5	61.6	1	1503.5	3112.9	35.0	42.2	9355

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9350	6.3	61.2	1	1506.3	3657.0	35.0	39.2	9360
9355	5.0	61.4	1	1505.0	3322.4	35.0	37.3	9365
9360	7.2	61.0	1	1507.2	3501.6	35.0	38.2	9380
9365	1.4	61.5	1	1501.4	2954.5	35.0	39.8	9385
9370	4.5	61.0	1	1504.5	3550.5	35.0	35.4	9380
9375	5.9	61.0	1	1505.9	3020.1	35.0	36.9	9385
9380	5.3	60.9	1	1505.3	2954.6	35.0	40.6	9390
9385	1.5	61.0	1	1501.5	2895.0	35.0	39.0	9375
9390	6.1	60.9	1	1506.1	2662.6	35.0	35.0	9395
9395	3.5	61.0	1	1503.5	2065.0	35.0	44.3	9390
9400	11.3	61.1	1	1511.3	5000.0	56.4	56.3	3080
9410	0.0	61.5	1	1500.0	5000.0	48.7	48.3	9415
9415	1.5	61.0	1	1501.5	3395.4	35.0	42.9	9425
9420	8.3	61.9	1	1508.3	5000.0	42.5	45.0	9430
9425	1.5	61.0	1	1501.5	3333.0	35.0	43.6	9415
9430	0.0	62.3	1	1500.0	5000.0	40.6	43.8	9490
9440	22.2	62.2	1	1522.2	5000.0	39.3	39.3	9490
9460	3.7	60.9	1	1503.7	5000.0	56.1	56.3	3080
9470	2.9	60.9	1	1502.9	5000.0	56.2	56.2	9480
9480	0.0	60.9	1	1500.0	3183.9	35.0	56.7	3060
9490	6.7	62.2	1	1506.7	2642.5	35.0	54.8	9440
9500	7.7	63.8	1	1507.7	2693.7	35.0	55.5	9510
9505	2.8	64.0	1	1502.8	4047.7	35.0	43.2	9175
9510	12.1	64.0	1	1512.1	3427.9	35.0	35.1	9513
9513	0.0	64.1	1	1500.0	521.8*	35.0	57.0	3060
9515	7.8	64.2	1	1507.8	4071.3	35.0	44.7	9600
9520	13.7	64.2	1	1513.7	1708.4	35.0	56.6	3060
9525	4.3	64.2	1	1504.3	3377.6	35.0	45.9	9605
9530	13.2	64.3	1	1513.2	1717.8	35.0	56.6	3060
9535	10.8	64.3	1	1510.8	3656.7	35.0	47.8	9530
9540	12.3	64.3	1	1512.3	1703.5	35.0	56.6	3060
9545	17.1	64.5	1	1517.1	3990.7	35.0	47.3	9540
9550	0.0	64.1	1	1500.0	2376.8	35.0	56.3	3080
9555	7.5	64.3	1	1507.5	3536.9	35.0	43.3	9570
9560	15.0	64.6	1	1515.0	4355.2	35.0	44.7	9640
9570	0.0	64.4	1	1500.0	3824.4	35.0	36.4	9585
9580	0.2	64.5	1	1500.2	1196.8*	35.0	56.7	3060
9585	6.2	64.5	1	1506.2	3108.5	35.0	45.8	9570
9590	4.1	64.7	1	1504.1	1517.5	35.0	35.0	9595
9595	1.1	64.8	1	1501.1	1385.9*	35.0	35.2	9660

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
9600	0.0	64.1	1	1500.0	4444.1	35.0	40.6	9515
9605	4.1	64.3	1	1504.1	3365.8	35.0	45.8	9750
9610	2.6	64.3	1	1502.6	3843.0	35.0	47.8	9760
9640	13.3	64.8	1	1513.3	3855.0	35.0	37.0	9590
9650	6.7	64.9	1	1506.7	2668.7	35.0	34.8	9590
9660	3.7	65.0	1	1503.7	634.8*	35.0	57.0	3060
9670	2.6	64.9	1	1502.6	3022.9	35.0	35.0	9675
9673	0.0	64.9	1	1500.0	3772.3	35.0	36.1	9675
9675	2.0	64.9	1	1502.0	1183.4*	35.0	56.8	3060
9680	13.4	64.8	1	1513.4	3491.1	35.0	43.3	9673
9685	0.0	64.9	1	1500.0	2729.0	35.0	35.0	9688
9687	0.0	65.0	1	1500.0	1343.9*	35.0	56.4	9685
9688	0.0	64.9	1	1500.0	1318.3*	35.0	56.6	9685
9700	1.3	63.6	1	1501.3	3399.5	35.0	45.7	9710
9710	0.0	63.7	1	1500.0	3541.9	35.0	43.9	9700
9720	4.5	63.8	1	1504.5	5000.0	50.7	52.6	9710
9730	1.4	63.6	1	1501.4	5000.0	50.3	53.3	9720
9740	0.0	64.0	1	1500.0	3386.2	35.0	53.4	9600
9750	4.1	64.1	1	1504.1	1761.4	35.0	56.6	3060
9760	11.3	64.2	1	1511.3	3335.5	35.0	52.1	9610
9770	7.8	64.3	1	1507.8	1770.8	35.0	56.6	3060
9780	17.1	64.5	1	1517.1	1766.9	35.0	56.6	3060
9790	8.3	64.6	1	1508.3	1778.5	35.0	56.6	3080
9800	2.3	61.0	1	1502.3	4064.8	35.0	39.3	9810
9810	3.4	61.0	1	1503.4	3349.4	35.0	42.7	9337
9820	6.2	61.2	1	1506.2	3623.7	35.0	36.9	9830
9830	7.1	61.2	1	1507.1	2667.3	35.0	39.6	9850
9840	6.2	61.2	1	1506.2	3698.8	35.0	36.5	9850
9850	7.1	61.2	1	1507.1	2666.5	35.0	39.6	9830
9860	6.2	61.8	1	1506.2	5000.0	36.5	40.5	9840
9870	7.1	62.5	1	1507.1	3406.2	35.0	43.6	9880
9880	7.1	62.7	1	1507.1	3421.2	35.0	43.2	9870
9900	0.0	62.3	1	1500.0	5000.0	47.1	51.2	9910
9910	0.0	61.8	1	1500.0	5000.0	46.3	47.9	9920
9920	0.0	61.8	1	1500.0	5000.0	39.3	49.3	9910
10000	11.6	62.4	1	1511.6	5000.0	58.2	55.0	14135
10010	15.5	62.6	1	1515.5	5000.0	57.6	55.1	14135
10020	15.5	63.0	1	1515.5	5000.0	58.2	55.1	3080
10030	13.8	62.7	1	1513.8	5000.0	58.3	55.2	3080
10040	7.4	63.3	1	1507.4	5000.0	58.1	55.2	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
10050	10.0	63.4	1	1510.0	5000.0	58.0	55.2	3080
10060	7.7	63.4	1	1507.7	5000.0	58.0	55.1	3080
10070	0.0	63.4	1	1500.0	5000.0	58.1	55.1	3080
10080	4.6	63.4	1	1504.6	5000.0	58.2	55.1	3080
10090	0.3	63.4	1	1500.3	5000.0	58.2	55.1	3080
10100	5.7	63.4	1	1505.7	5000.0	58.2	55.1	3080
10110	5.8	63.5	1	1505.8	5000.0	58.4	55.2	3080
10115	3.2	63.5	1	1503.2	5000.0	58.4	55.2	3080
10120	5.2	63.9	1	1505.2	5000.0	59.5	55.2	3080
10130	5.4	64.0	1	1505.4	5000.0	59.2	55.1	3080
10140	10.3	64.0	1	1510.3	5000.0	59.0	55.0	3080
10150	0.0	64.1	1	1500.0	5000.0	58.9	55.0	3080
10160	29.4	64.1	1	1529.4	5000.0	58.7	54.9	3080
10170	6.1	64.2	1	1506.1	5000.0	58.5	54.8	3080
10180	1.8	64.3	1	1501.8	5000.0	58.4	54.7	3080
10185	21.7	64.2	1	1521.7	5000.0	58.4	54.7	3080
10190	2.8	64.5	1	1502.8	5000.0	58.8	54.6	3080
10195	0.0	64.4	1	1500.0	5000.0	57.9	54.6	3080
10210	23.3	63.4	1	1523.3	5000.0	56.3	54.5	3080
14100	6.2	57.5	1	1506.2	3296.1	35.0	45.4	4100
14110	9.3	57.4	1	1509.3	4820.2	35.0	34.9	14115
14115	3.1	57.3	1	1503.1	2288.7	35.0	50.9	14110
14120	6.2	57.5	1	1506.2	3230.4	35.0	45.3	4115
14130	9.3	57.4	1	1509.3	4526.3	35.0	34.9	14135
14135	3.1	57.3	1	1503.1	2280.4	35.0	50.3	14130
14140	5.4	57.7	1	1505.4	3960.2	35.0	38.2	14160
14150	3.9	57.6	1	1503.9	4259.4	35.0	42.3	14170
14160	8.5	57.8	1	1508.5	3142.5	35.0	45.3	14140
14170	8.5	57.7	1	1508.5	4151.9	35.0	40.1	4266
20500	0.0	61.9	1	1500.0	0.0*	61.9	57.2	3060
23000	0.5	63.2	1	1500.5	5000.0	55.2	53.8	3080
23010	0.0	63.2	1	1500.0	5000.0	55.9	53.8	3080
23020	0.0	64.5	1	1500.0	5000.0	55.1	53.8	3080
23030	0.0	64.9	1	1500.0	5000.0	54.3	53.9	3080
23040	1.2	65.3	1	1501.2	5000.0	53.7	53.6	80200
23050	0.0	63.2	1	1500.0	5000.0	55.8	53.9	3080
23060	0.0	63.6	1	1500.0	5000.0	56.1	53.9	3080
23070	6.5	63.8	1	1506.5	5000.0	56.2	53.9	3080
23100	0.0	64.5	1	1500.0	5000.0	56.8	53.9	3080
23110	52.5	64.1	1	1552.5	4703.4	35.0	40.5	23120

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
23120	3.3	63.8	1	1503.3	4110.5	35.0	39.1	5295
23200	0.0	63.6	1	1500.0	5000.0	38.7	38.5	5297
23210	0.0	63.6	1	1500.0	5000.0	43.3	43.6	5297
23220	0.0	64.3	1	1500.0	5000.0	49.8	49.0	5297
23230	6.5	64.7	1	1506.5	5000.0	48.5	50.2	23240
23240	7.7	64.9	1	1507.7	5000.0	43.5	45.5	23540
23400	0.0	63.6	1	1500.0	5000.0	48.8	51.4	23410
23410	0.0	63.6	1	1500.0	5000.0	48.5	51.5	23400
23420	0.0	64.1	1	1500.0	5000.0	50.9	52.2	23410
23500	0.0	64.5	1	1500.0	5000.0	48.4	49.9	23510
23510	0.0	64.5	1	1500.0	5000.0	43.0	45.2	23520
23520	0.0	64.5	1	1500.0	5000.0	40.9	44.0	23530
23530	0.0	64.5	1	1500.0	5000.0	40.3	44.1	23540
23540	0.0	64.7	1	1500.0	5000.0	41.1	41.4	23550
23550	0.0	64.9	1	1500.0	4056.4	35.0	48.0	23540
39000	0.0	59.5	3	1500.0	5000.0	45.9	55.1	51060
39010	0.0	61.1	3	1500.0	5000.0	44.6	48.4	39020
39020	0.0	61.8	3	1500.0	5000.0	40.1	48.7	39010
39040	0.0	60.8	3	1500.0	5000.0	51.1	55.3	41150
39200	0.0	60.8	3	1500.0	5000.0	40.9	49.4	39210
39210	0.0	60.8	3	1500.0	5000.0	40.5	49.6	39200
40000	71.1	58.3	3	1571.1	5000.0	55.8	55.0	51060
40010	98.9	58.0	3	1598.9	5000.0	55.0	54.6	40130
40020	133.5	57.9	3	1633.5	5000.0	54.7	54.4	51060
40030	139.1	57.9	3	1639.1	5000.0	54.6	54.2	51060
40040	100.1	57.9	3	1600.1	4718.5	35.0	39.3	40050
40050	141.8	57.9	3	1641.8	4049.2	35.0	35.7	40160
40100	22.9	57.9	3	1522.9	4778.4	35.0	39.3	40110
40110	37.1	57.9	3	1537.1	4087.6	35.0	35.4	40120
40115	37.1	57.9	3	1537.1	3835.7	35.0	38.6	40130
40120	14.5	57.7	3	1514.5	2981.3	35.0	37.1	40130
40130	14.5	57.4	3	1514.5	2726.0	35.0	36.9	40140
40140	14.5	57.7	3	1514.5	2715.9	35.0	36.9	40130
40150	37.1	57.9	3	1537.1	2751.1	35.0	36.6	40140
40160	37.1	57.9	3	1537.1	2982.4	35.0	37.4	40150
41000	139.1	58.0	3	1639.1	5000.0	53.8	53.7	41040
41010	92.7	57.6	3	1592.7	5000.0	52.7	52.4	41030
41020	92.7	57.0	3	1592.7	5000.0	51.9	53.1	41040
41025	145.2	57.9	3	1645.2	5000.0	54.5	53.5	41055
41028	185.4	59.1	3	1685.4	5000.0	55.7	54.4	41055

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
41030	51.9	56.9	3	1551.9	4537.2	35.0	39.7	41040
41040	51.9	56.4	3	1551.9	3777.6	35.0	41.4	41050
41050	51.9	56.4	3	1551.9	3847.4	35.0	40.9	41040
41055	80.3	56.4	3	1580.3	4986.1	35.0	39.6	41050
41057	80.3	56.9	3	1580.3	5000.0	35.6	44.4	41055
41060	51.9	58.1	3	1551.9	5000.0	53.3	53.5	41100
41070	72.9	58.3	3	1572.9	5000.0	54.0	52.8	41150
41080	83.4	59.6	3	1583.4	5000.0	55.7	53.8	41150
41090	29.0	56.3	3	1529.0	4334.3	35.0	44.4	41055
41100	54.1	56.3	3	1554.1	4943.2	35.0	39.2	41140
41110	54.1	56.8	3	1554.1	5000.0	35.0	43.9	41100
41120	37.1	58.1	3	1537.1	5000.0	38.2	47.4	41130
41130	72.9	57.9	3	1572.9	5000.0	39.4	41.4	41160
41140	25.0	57.1	3	1525.0	3926.4	35.0	39.2	41150
41150	79.1	56.2	3	1579.1	3573.4	35.0	43.4	41140
41160	79.1	57.0	3	1579.1	3945.2	35.0	39.6	41150
41170	79.1	59.6	3	1579.1	5000.0	40.4	47.5	41130
50010	100.1	57.1	3	1600.1	5000.0	38.3	42.5	51000
50020	135.3	57.2	3	1635.3	5000.0	51.9	51.6	51060
50030	33.4	57.3	3	1533.4	5000.0	51.8	51.4	51060
50040	131.3	57.2	3	1631.3	5000.0	51.6	51.3	51060
50050	98.0	57.7	3	1598.0	5000.0	51.8	51.6	51070
50060	91.8	57.9	3	1591.8	5000.0	52.0	51.3	51090
50070	120.5	58.1	3	1620.5	5000.0	51.7	51.5	51110
50080	208.6	58.8	3	1708.6	5000.0	52.2	51.1	51110
50090	151.4	59.5	3	1651.4	5000.0	52.5	51.3	51110
50100	208.6	60.5	3	1708.6	5000.0	53.4	51.5	51110
50110	129.2	61.5	3	1629.2	5000.0	54.1	51.6	51110
50120	187.6	61.9	3	1687.6	5000.0	54.4	51.8	51110
50130	175.2	61.5	3	1675.2	5000.0	53.9	51.9	51110
51000	22.9	56.8	3	1522.9	4224.4	35.0	43.5	51010
51010	22.9	56.8	3	1522.9	4527.5	35.0	41.6	51000
51020	37.1	56.9	3	1537.1	4880.5	35.0	45.1	51030
51030	37.1	56.8	3	1537.1	5000.0	37.6	39.7	51010
51040	14.5	56.7	3	1514.5	5000.0	35.5	42.0	51060
51050	43.3	56.9	3	1543.3	4891.3	35.0	45.2	51060
51060	43.3	56.6	3	1543.3	5000.0	37.8	41.7	51040
51070	29.0	56.7	3	1529.0	4417.5	35.0	44.3	51090
51080	91.8	57.4	3	1591.8	4792.7	35.0	44.3	51090
51090	91.8	56.9	3	1591.8	5000.0	35.5	40.9	51070

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
51100	61.8	57.5	3	1561.8	4304.1	35.0	45.2	51110
51110	91.8	57.4	3	1591.8	5000.0	35.3	41.4	51100
51120	91.8	58.1	3	1591.8	4799.5	35.0	44.2	51110
51130	26.9	58.6	3	1526.9	4476.0	35.0	44.6	51110
51140	58.4	60.2	3	1558.4	5000.0	35.4	45.4	51150
51150	58.4	59.8	3	1558.4	5000.0	37.2	41.7	51130
51160	58.4	60.6	3	1558.4	4518.1	35.0	46.1	51150
51170	60.3	61.9	3	1560.3	5000.0	35.8	45.6	51180
51180	60.3	61.9	3	1560.3	5000.0	36.3	41.6	51230
51190	61.8	63.6	3	1561.8	5000.0	39.1	49.1	51200
51200	61.8	64.4	3	1561.8	5000.0	40.8	44.0	51210
51210	29.0	64.2	3	1529.0	4263.1	35.0	41.5	51220
51220	29.0	64.0	3	1529.0	3984.3	35.0	43.4	51230
51230	29.0	63.6	3	1529.0	4199.0	35.0	41.3	51220
52000	33.4	64.9	3	1533.4	5000.0	39.3	48.5	51200
52010	91.8	65.3	3	1591.8	5000.0	53.1	52.1	51110
70000	111.2	60.5	3	1611.2	5000.0	59.6	55.5	41150
70010	157.6	60.5	3	1657.6	5000.0	59.2	55.1	41150
70020	94.9	60.5	3	1594.9	5000.0	58.7	54.9	41150
70030	208.6	60.4	3	1708.6	5000.0	58.3	54.8	41150
70040	150.2	59.7	3	1650.2	5000.0	57.3	54.9	41150
70050	166.9	60.3	3	1666.9	5000.0	57.6	54.9	41150
70060	35.2	60.3	3	1535.2	5000.0	57.3	54.9	41150
70070	35.2	60.3	3	1535.2	5000.0	57.1	55.0	41150
70080	126.7	60.6	3	1626.7	5000.0	57.2	55.0	41150
70090	0.0	61.7	3	1500.0	5000.0	58.2	55.1	41150
70100	0.0	61.6	3	1500.0	5000.0	58.1	55.1	41150
70110	173.7	62.0	3	1673.7	5000.0	58.4	55.1	51060
70115	139.1	61.9	3	1639.1	5000.0	42.0	54.2	76000
70120	154.5	62.5	3	1654.5	5000.0	58.8	55.0	51060
70130	89.6	63.1	3	1589.6	5000.0	59.0	54.8	51060
70140	166.9	63.7	3	1666.9	5000.0	59.6	54.7	51070
70150	120.5	63.6	3	1620.5	5000.0	59.3	54.6	51070
70200	182.3	63.6	3	1682.3	5000.0	59.2	54.6	51070
74000	43.3	62.1	3	1543.3	5000.0	54.9	54.2	74250
74005	108.2	62.6	3	1608.2	5000.0	56.0	54.9	51060
74010	87.4	61.7	3	1587.4	5000.0	53.6	53.0	74250
74020	43.3	61.6	3	1543.3	5000.0	51.5	51.7	74250
74030	58.7	61.3	3	1558.7	5000.0	50.6	50.4	74250
74040	43.3	60.8	3	1543.3	5000.0	48.4	49.3	74250

\* Needed Fire Flow not attained.



## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
74050	43.3	60.6	3	1543.3	5000.0	47.9	48.4	74250
74060	25.0	61.7	3	1525.0	5000.0	48.5	49.2	74050
74070	45.7	62.3	3	1545.7	5000.0	49.9	50.3	74060
74080	0.0	62.1	3	1500.0	5000.0	49.9	51.0	74250
74090	45.7	61.9	3	1545.7	5000.0	51.3	51.7	74250
74095	0.0	61.5	3	1500.0	5000.0	39.3	51.0	74250
74100	45.7	62.3	3	1545.7	5000.0	52.1	52.6	74250
74110	92.7	62.8	3	1592.7	5000.0	54.5	53.4	74250
74115	51.9	62.8	3	1551.9	5000.0	42.8	53.4	74250
74120	51.9	63.2	3	1551.9	5000.0	55.9	54.5	74250
74200	61.8	61.7	3	1561.8	5000.0	41.4	50.9	74210
74210	79.1	61.2	3	1579.1	5000.0	44.9	48.1	74220
74220	62.4	60.9	3	1562.4	5000.0	35.2	47.0	74230
74230	79.1	60.6	3	1579.1	5000.0	40.5	43.6	74240
74240	62.4	60.4	3	1562.4	4409.5	35.0	42.5	74250
74250	62.4	60.1	3	1562.4	4499.6	35.0	42.0	74240
74300	102.0	64.5	3	1602.0	5000.0	56.3	54.7	51070
74310	39.6	64.0	3	1539.6	5000.0	43.1	54.0	74320
74320	79.1	64.0	3	1579.1	5000.0	48.7	50.2	74330
74330	37.1	63.3	3	1537.1	5000.0	37.1	49.2	74340
74340	87.4	62.7	3	1587.4	5000.0	44.8	47.2	74350
74350	45.7	62.9	3	1545.7	4866.4	35.0	45.2	74360
74360	45.7	62.7	3	1545.7	5000.0	38.5	41.4	74550
74500	37.1	64.8	3	1537.1	4885.6	35.0	40.2	74510
74510	37.1	63.9	3	1537.1	4324.4	35.0	46.2	74500
74520	66.7	63.9	3	1566.7	4876.5	35.0	38.7	74530
74530	26.9	64.1	3	1526.9	3906.9	35.0	40.6	74540
74540	30.0	64.4	3	1530.0	3735.7	35.0	42.5	74530
74550	26.9	63.7	3	1526.9	4188.3	35.0	42.5	74540
74570	18.5	63.5	3	1518.5	4887.9	35.0	42.4	74520
74600	125.1	64.7	3	1625.1	5000.0	44.7	50.5	74610
74610	105.1	64.2	3	1605.1	5000.0	39.1	51.9	74600
76000	166.9	61.2	3	1666.9	5000.0	35.4	44.2	76010
76010	166.9	61.6	3	1666.9	5000.0	39.9	42.9	76000
80000	185.4	63.2	3	1685.4	5000.0	55.5	52.2	51110
80010	157.6	64.1	3	1657.6	5000.0	56.3	52.3	51110
80020	115.9	64.5	3	1615.9	5000.0	56.7	52.4	51110
80030	95.8	64.7	1	1595.8	5000.0	56.8	54.0	3080
80040	129.8	65.0	1	1629.8	5000.0	57.1	54.1	3080
80050	108.2	64.2	1	1608.2	5000.0	56.2	54.1	3080

\* Needed Fire Flow not attained.





## Fire Flow Summary.

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JCT No.	User 1 Demand (gpm)	User 1 Pressure (psi)	Zone No.	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	@Residual Pressure (psi)	Min. Zone Pressure (psi)	@JCT Number
80060	148.3	63.4	1	1648.3	5000.0	55.5	54.2	3080
80070	68.0	63.9	1	1568.0	5000.0	56.2	54.2	3080
80080	68.0	64.5	1	1568.0	5000.0	57.2	54.3	3080
80090	0.0	64.6	1	1500.0	5000.0	57.9	54.4	3080
80100	0.0	64.7	1	1500.0	5000.0	58.2	54.4	3080
80200	112.5	64.0	1	1612.5	5000.0	46.9	49.9	80210
80210	54.1	64.0	1	1554.1	5000.0	46.0	50.1	80200
80220	89.6	64.4	1	1589.6	5000.0	48.5	50.5	80210
80230	89.6	64.0	1	1589.6	5000.0	49.6	52.3	80220
80300	100.1	63.8	1	1600.1	5000.0	38.2	46.3	750
80400	33.4	65.3	1	1533.4	4660.0	35.0	40.9	80410
80410	33.4	65.7	1	1533.4	4204.5	35.0	43.9	80420
80420	33.4	66.2	1	1533.4	4294.6	35.0	42.5	80410
80430	33.4	65.6	1	1533.4	4961.0	35.0	40.8	80420
80500	50.1	65.0	1	1550.1	5000.0	38.4	45.1	80510
80510	50.1	65.1	1	1550.1	4738.3	35.0	46.4	80520
80520	50.1	64.7	1	1550.1	5000.0	36.9	44.1	80510
90000	18.2	64.0	1	1518.2	5000.0	57.7	54.6	3080

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